ABOUT THE BULLETIN

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules, and policies adopted by the Board of Trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies, and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, college, or administrative Office.

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This Bulletin is effective August 23, 2017 though August 21, 2018.
HOW TO USE THIS BULLETIN

I hope you find this Bulletin a valuable source of vital information about San Francisco State University. It is designed to provide you with the most up-to-date information about university programs, policies, and procedures. It is divided into the following eleven sections:

Admissions (bulletin.sfsu.edu/undergraduate-admissions) contains vital information about general admission requirements and procedures as well as specific information and guidelines for undergraduate, graduate, and international students.

Student Fees and Financial Aid (bulletin.sfsu.edu/fees-financial-aid/fees-expenses) outlines the cost and types of financial assistance available to different classifications of students. Included in this section are application procedures, eligibility criteria, refund policies, information about grants, loans, and scholarships.

University Policies and Procedures (bulletin.sfsu.edu/policies-procedures) contains information about university policies, registration, grading policy and systems, scholastic distinction, and academic standards.

Undergraduate Education (bulletin.sfsu.edu/undergraduate-education) provides an overview of graduation requirements including a baccalaureate degree checklist, General Education requirements, and other entry and exit level requirements.

Graduate Education (bulletin.sfsu.edu/graduate-education/admissions) contains information about important graduate policies and procedures, English proficiency requirements, Advancement to Candidacy requirements, culminating experience procedures, and graduation procedures.

University Resources and Support Services (bulletin.sfsu.edu/resources) describes specific learning resources, services, and facilities that provide meaningful educational and extra-curricular experiences for students while attending the university. Included in this section are Advising Services, Athletics, Career Services, Health and Psychological Services, Disability Resources, Housing and Food Services, Alternative Learning Opportunities, International Student Services, Learning Assistance, Educational Outreach Programs, Information Services, Arts Experience, Research and Special Learning Facilities, and Retention Services.

Academic Programs (bulletin.sfsu.edu/programs) provides an overview of the university's curriculum in alphabetical order. Use this section to locate a specific academic major, minor, certificate, option, or concentration that interests you. Details about program faculty, course requirements, and program policies can be found in this section. College deans, department chairs, advisors, or faculty members listed in the various program descriptions will be pleased to answer any additional questions you may have about their programs.

Credential Programs (bulletin.sfsu.edu/about-sfsu/degrees-offered/credentials) included within the Graduate College of Education programs section, describes in detail the requirements and policies for completing the various credential programs offered by the university including the teaching credentials, the different school services credentials, and the specialist instruction credentials.

The Certificate Programs (bulletin.sfsu.edu/about-sfsu/degrees-offered/certificates) section outlines the types of certificate programs offered and the procedures for admission and completion of program requirements.

Course Descriptions (bulletin.sfsu.edu/courses) contains information about each permanent course offered by the University. The information includes: number, title, units, prerequisites if any, method of instruction (lecture, activity, laboratory), and whether the course is repeatable. A course may not be repeated for credit unless it is specified in the course description. When a specific option of grading is mandated, the grading method will be identified.

Directory of Instructional Faculty, Academic Administrators, Librarians, and Student Services Professionals (bulletin.sfsu.edu/faculty/faculty).

The University Bulletin is intended to be as helpful as possible to those who use it. If you found any aspect of this publication difficult or confusing, I would appreciate your comments and welcome your suggestions. Please send written comments to the Provost and Vice President for Academic Affairs, ADM 455, or via email at academic@sfsu.edu.

Dr. Jennifer Summit
Interim Provost and Vice President for Academic Affairs
San Francisco State University
TABLE OF CONTENTS

About the University .............................................................. 15
Administrative Officers .......................................................... 16
Degrees Offered ........................................................................ 19
Baccalaureate Degrees ............................................................. 19
Post-Baccalaureate Degrees .................................................... 21
Minor Programs ........................................................................ 23
Certificate Information ............................................................ 25
Certificates ............................................................................... 26
Credentials ............................................................................... 28
California State University ...................................................... 29
Office of the Chancellor .......................................................... 30
Trustees of the California State University ............................ 30
California State University Campuses ................................. 30
Colleges ................................................................................... 33
College of Business ................................................................. 33
Graduate College of Education ............................................... 36
College of Ethnic Studies ......................................................... 39
College of Extended Learning ............................................... 41
College of Health and Social Sciences ................................. 44
College of Liberal & Creative Arts ......................................... 46
College of Science and Engineering ....................................... 50
Undergraduate Admissions .................................................... 53
Undergraduate Application Procedures ................................ 53
Transfer Students .................................................................... 57
International Student Admission Requirements ................ 58
Readministration and Special Sessions ................................. 60
Eligibility Index Table for California High School Graduates or Residents of California .............................................. 61
Eligibility Index Table for Nonresidents or Graduates of California High Schools Outside of California ...................... 63
AP - IB - CLEP Standardized External Examinations ........ 65
Undergraduate Education ........................................................ 66
Undergraduate Graduation Requirements ............................ 70
US History and Government Requirement ........................... 70
General Education ................................................................. 82
Lower Division General Education ....................................... 82
Upper Division General Education ....................................... 88
SF State Studies ....................................................................... 95
American Ethnic and Racial Minorities ............................... 95
Environmental Sustainability ............................................... 98

Global Perspectives .............................................................. 100
Social Justice .......................................................................... 104
Complementary Studies ......................................................... 110
Academic Advising for Undergraduate Students .................. 111
Planning Your Studies at SF State ......................................... 111
Academic Checklist ............................................................... 113
AP - IB - CLEP Standardized External Examinations ........ 65
Graduate Education ............................................................... 115
Graduate Admissions and Graduate Studies ......................... 115
Graduate Academic Policies and Procedures ....................... 120
Graduate Student Registration ............................................. 128
Fees and Financial Aid ........................................................... 132
Fees and Expenses ............................................................... 132
Refund of Mandatory Tuition and Fees, Including Nonresident Tuition Fee ................................................................. 134
Fees and Debts Owed to the Institution ................................. 135
Fee Waivers and Exemptions ............................................... 135
Determination of Residency for Tuition Purposes ................ 136
Average Annual Cost of Education and Sources of Funds per Full-Time Equivalent Student .................................. 137
Student Financial Aid ............................................................. 138
Financial Aid Deadlines ........................................................ 140
Policies and Procedures .......................................................... 142
Grading Policy and Systems .................................................. 148
Scholastic Distinction ............................................................. 150
Academic Standards ............................................................. 151
Graduation and Commencement ........................................... 154
Appeals Process .................................................................... 156
Regulations and Procedures - Additional ............................. 160
Faculty Statement Of Course Requirements ....................... 160
Student Concerns or Complaints about Actions Taken on Behalf of San Francisco State University ................................. 160
Opportunities for Prospective Teachers ............................... 160
Opportunities for Athletes ..................................................... 160
Student Success and Graduation Rates ............................... 161
Privacy Rights of Students in Education Records ................ 161
Requirement and Use of Social Security Number ................ 161
University Identification Number ......................................... 161
Career Placement: Data On Former Students ..................... 162
Average Annual Cost of Education and Sources of Funds per Full-Time Equivalent Student .................................. 162
Availability of Institutional and Financial Assistance Information 162
Elementary Education ................................................................. 311
Master of Arts in Education: Concentration in Early Childhood Education ................................................................. 311
Master of Arts in Education: Concentration in Elementary Education ........................................................................ 313
Master of Arts in Education: Concentration in Language and Literacy Education ...................................................... 313
Master of Arts in Education: Concentration in Mathematics Education ................................................................. 314
Secondary Education ........................................................................ 316
Master of Arts in Education: Concentration in Mathematics Education ........................................................................ 316
Master of Arts in Education: Concentration in Secondary Education ........................................................................ 317
Special Education ............................................................................. 319
Bachelor of Arts in Communicative Disorders .................................................. 321
  Bachelor of Science in Communicative Disorders Roadmap ................................................................. 324
Certificate in Augmentative and Alternative Communication ................................................................. 326
Certificate in Inclusive Early Childhood Practices .................................................................................... 326
Certificate in the Autism Spectrum ................................................................................................................. 327
Doctor of Philosophy in Education: Concentration in Special Education ................................................................. 327
Master of Arts in Special Education .............................................................................................................. 329
Master of Science in Communicative Disorders ........................................................................................... 330
Minor in Special Education ................................................................................................................................. 331
Teaching and Educational Services Credential Programs .................................................................................. 332
Multiple Subject Credential Programs .............................................................................................................. 334
Single Subject Credential Program .................................................................................................................. 335
Education Specialist Credential Programs ........................................................................................................... 337
Education Specialist Added Authorizations ........................................................................................................... 340
Specialist Credential Programs ........................................................................................................................... 340
School Services Credential Programs .................................................................................................................. 342
Other Services Credential Programs .................................................................................................................. 343
Africana Studies .................................................................................. 345
Bachelor of Arts in Africana Studies .................................................................................................................... 345
  Bachelor of Arts in Africana Studies Roadmap ............................................................................................... 349
  Bachelor of Arts in Africana Studies - SJS Associate Degree for Transfer Roadmap ........................................... 351
Minor Program in Africana Studies ...................................................................................................................... 354
American Indian Studies ................................................................................................. 355
Bachelor of Arts in American Indian Studies ......................................................................................................... 355
  Bachelor of Arts in American Indian Studies Roadmap ..................................................................................... 359
  Bachelor of Arts in American Indian Studies - SJS Associate Degree for Transfer Roadmap .............................. 361
Minor in American Indian Studies .......................................................................................................................... 363
Arab and Muslim Ethnicities and Diasporas Studies .......................................................................................... 364
Minor in Arab and Muslim Ethnicities and Diasporas Studies ............................................................................. 364
Asian American Studies ................................................................................................................................. 365
Bachelor of Arts in Asian American Studies ........................................................................................................... 366
  Bachelor of Arts in Asian American Studies Roadmap .................................................................................... 369
  Bachelor of Arts in Asian American Studies - SJS Associate Degree for Transfer Roadmap ................................... 372
Minor in Asian American Studies .......................................................................................................................... 374
Bachelor of Arts in Asian American Studies ........................................................................................................... 374
Ethnic Studies ................................................................................................. 376
Certificate in Ethnic Studies ................................................................................................................................. 376
Master of Arts in Ethnic Studies ............................................................................................................................ 377
Latina/Latino Studies ................................................................................................. 379
Bachelor of Arts in Latina/Latino Studies ............................................................................................................... 380
  Bachelor of Arts in Latina/Latino Studies Roadmap ........................................................................................... 384
  Bachelor of Arts in Latina/Latino Studies - SJS Associate Degree for Transfer Roadmap ........................................ 387
  Bachelor of Arts in Latina/Latino Studies - SPAN Associate Degree for Transfer Roadmap ..................................... 389
Minor in Latina/Latino Studies ................................................................................................................................. 391
Race and Resistance Studies ............................................................................................................................... 392
Minor in Race and Resistance Studies .................................................................................................................... 393
Digital Animation ................................................................................................................................. 394
Digital Media Production ................................................................................................................................. 395
Film and Media Studies ................................................................................................................................. 396
Music/Recording Industry ................................................................................................................................. 397
Paralegal Studies ................................................................................................................................. 398
Pre-Health Professions ........................................................................................................................................... 400
Pre-Nursing ....................................................................................................................................................... 402
Screenwriting .................................................................................................................................................. 404
Spanish/English Interpretation ............................................................................................................................... 405
Child and Adolescent Development ................................................................................................................... 406
  Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood ...................................... 407
  Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood Roadmap ................................. 411
  Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood - Associate Degree for Transfer Roadmap ................................................................. 414
  Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family .................................................. 417
  Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family Roadmap .................................................. 421
Bachelor of Arts in Child and Adolescent Development:
Concentration in School Age Child and Family - CAD Associate Degree for Transfer Roadmap .......................................................... 424
Bachelor of Arts in Child and Adolescent Development:
Concentration in School Age Child and Family - ECE Associate Degree for Transfer Roadmap .......................................................... 426
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time .................................. 429
Bachelor of Arts in Child and Adolescent Development:
Concentration in Youth Work and Out of School Time - Child and Adolescent Development Associate Degree for Transfer Roadmap ........................................................................ 434
Bachelor of Arts in Child and Adolescent Development:
Concentration in Youth Work and Out of School Time - ECE Associate Degree for Transfer Roadmap .................................................. 436
Consumer and Family Studies/Dietetics ............................................. 438
Bachelor of Arts in Family and Consumer Sciences ....................... 438
Bachelor of Arts in Family and Consumer Sciences - Family Studies Roadmap .................................................................................. 442
Bachelor of Arts in Family and Consumer Sciences - Nutrition/ Foodservice Systems Management Roadmap ................................ 444
Bachelor of Science in Apparel Design and Merchandising ............ 446
Bachelor of Science in Apparel Design and Merchandising:
Apparel Design Emphasis Roadmap .................................................. 449
Bachelor of Science in Apparel Design and Merchandising:
Fashion Merchandising Emphasis Roadmap .................................... 451
Bachelor of Science in Dietetics ......................................................... 453
Bachelor of Science in Dietetics Roadmap ......................................... 456
Bachelor of Science in Interior Design .............................................. 458
Bachelor of Science in Interior Design Roadmap ................................ 461
Certificate in Dietetics ........................................................................ 463
Master of Arts in Family and Consumer Sciences ........................... 464
Counseling ...................................................................................... 466
Certificate in Counseling Deaf Persons .......................................... 468
Certificate in Counseling Deafened and Hard of Hearing Persons ............................................................... 468
Certificate in Rehabilitation Counseling ........................................ 468
Minor in Counseling ........................................................................ 468
Master of Science in Clinical Rehabilitation and Mental Health Counseling ................................................................. 468
Master of Science in Counseling .................................................... 469
Master of Science in Counseling: Concentration in Marriage, Family, and Child Counseling ......................................................... 471
Pupil Personnel Services Credential: School Counseling Designation AČã, ĉ, e Post-MasterAČã, ĉ, e Level .................................................. 472

Criminal Justice Studies ........................................................................... 474
Bachelor of Arts in Criminal Justice Studies .................................. 474
Bachelor of Arts in Criminal Justice Studies Roadmap .................. 479
Bachelor of Arts in Criminal Justice Studies - AJ Associate Degree for Transfer Roadmap ......................................................... 482
Bachelor of Arts in Criminal Justice Studies - SJS Associate Degree for Transfer Roadmap ......................................................... 485
Bachelor of Arts in Criminal Justice Studies - SOC Associate Degree for Transfer Roadmap ......................................................... 488
Minor in Criminal Justice Studies ...................................................... 491
Environmental Studies ...................................................................... 492
Bachelor of Arts in Environmental Studies ...................................... 492
Bachelor of Arts in Environmental Studies Roadmap ..................... 497
Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation .................. 500
Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation Roadmap .................................................. 503
Gerontology ...................................................................................... 506
Master of Arts in Gerontology .......................................................... 507
Health Education ............................................................................. 509
Bachelor of Science in Health Education .......................................... 510
Bachelor of Science in Health Education Roadmap ....................... 515
Bachelor of Science in Health Education - PHS Associate Degree for Transfer Roadmap ......................................................... 519
Certificate in Holistic Health Studies ................................................. 521
Minor in Health Education ................................................................ 521
Minor in Holistic Health Studies ....................................................... 522
Minor in Women's Health Issues ..................................................... 522
Master of Public Health .................................................................. 523
Kinesiology ....................................................................................... 525
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences .......................................................... 527
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences Roadmap ................................................. 531
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences - KIN Associate Degree for Transfer Roadmap .................................................. 534
Bachelor of Science in Kinesiology: Concentration in Physical Education ................................................................. 536
Bachelor of Science in Kinesiology: Concentration in Physical Education Roadmap ................................................................. 540
Minor/Certificate in Athletic Coaching ............................................. 542
Master of Science in Kinesiology ..................................................... 542
Nursing ............................................................................................. 544
Bachelor of Science for RNs ............................................................... 545
<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Arts in English: Concentration in Teaching English to</td>
<td>810</td>
</tr>
<tr>
<td>Speakers of Other Languages</td>
<td></td>
</tr>
<tr>
<td>European Studies</td>
<td>813</td>
</tr>
<tr>
<td>Global Peace, Human Rights, and Justice Studies</td>
<td>816</td>
</tr>
<tr>
<td>History</td>
<td>818</td>
</tr>
<tr>
<td>Bachelor of Arts in History</td>
<td>818</td>
</tr>
<tr>
<td>Bachelor of Arts in History Roadmap</td>
<td>821</td>
</tr>
<tr>
<td>Bachelor of Arts in History - HIST Associate Degree for Transfer</td>
<td>823</td>
</tr>
<tr>
<td>Roadmap</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Arts in History: Honors Concentration</td>
<td>825</td>
</tr>
<tr>
<td>Bachelor of Arts in History: Honors Concentration Roadmap</td>
<td>828</td>
</tr>
<tr>
<td>Bachelor of Arts in History: Honors Concentration - HIST Associate</td>
<td>830</td>
</tr>
<tr>
<td>Degree for Transfer Roadmap</td>
<td></td>
</tr>
<tr>
<td>Minor in History</td>
<td>832</td>
</tr>
<tr>
<td>Master of Arts in History</td>
<td>832</td>
</tr>
<tr>
<td>Humanities</td>
<td>834</td>
</tr>
<tr>
<td>Bachelor of Arts in Humanities</td>
<td>834</td>
</tr>
<tr>
<td>Bachelor of Arts in Humanities Roadmap</td>
<td>838</td>
</tr>
<tr>
<td>Bachelor of Arts in Humanities - ARTH Associate Degree for Transfer</td>
<td>841</td>
</tr>
<tr>
<td>Roadmap</td>
<td></td>
</tr>
<tr>
<td>Minor in Humanities</td>
<td>843</td>
</tr>
<tr>
<td>Master of Arts in Humanities</td>
<td>843</td>
</tr>
<tr>
<td>International Relations</td>
<td>845</td>
</tr>
<tr>
<td>Bachelor of Arts in International Relations</td>
<td>845</td>
</tr>
<tr>
<td>Bachelor of Arts in International Relations Roadmap</td>
<td>848</td>
</tr>
<tr>
<td>Bachelor of Arts in International Relations - GLST Associate Degree</td>
<td>850</td>
</tr>
<tr>
<td>for Transfer Roadmap</td>
<td></td>
</tr>
<tr>
<td>Minor in International Relations</td>
<td>852</td>
</tr>
<tr>
<td>Master of Arts in International Relations</td>
<td>852</td>
</tr>
<tr>
<td>Jewish Studies</td>
<td>853</td>
</tr>
<tr>
<td>Bachelor of Arts in Modern Jewish Studies</td>
<td>853</td>
</tr>
<tr>
<td>Bachelor of Arts in Modern Jewish Studies Roadmap</td>
<td>857</td>
</tr>
<tr>
<td>Bachelor of Arts in Modern Jewish Studies - HIST or POLS</td>
<td>859</td>
</tr>
<tr>
<td>Associate Degree for Transfer Roadmap</td>
<td></td>
</tr>
<tr>
<td>Minor in Jewish Studies</td>
<td>861</td>
</tr>
<tr>
<td>Journalism</td>
<td>861</td>
</tr>
<tr>
<td>Bachelor of Arts in Journalism: Concentration in Photojournalism</td>
<td>862</td>
</tr>
<tr>
<td>Bachelor of Arts in Journalism: Concentration in Photojournalism</td>
<td>863</td>
</tr>
<tr>
<td>Roadmap</td>
<td>866</td>
</tr>
<tr>
<td>Bachelor of Arts in Journalism: Concentration in Print and Online</td>
<td>868</td>
</tr>
<tr>
<td>Journalism Roadmap</td>
<td>871</td>
</tr>
<tr>
<td>Minor in Journalism</td>
<td></td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>873</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>874</td>
</tr>
<tr>
<td>Bachelor of Arts in Liberal Studies</td>
<td>876</td>
</tr>
<tr>
<td>Bachelor of Arts in Liberal Studies Roadmap</td>
<td>881</td>
</tr>
<tr>
<td>Bachelor of Art in Liberal Studies: Elementary Teaching Preparation</td>
<td>885</td>
</tr>
<tr>
<td>Emphasis - ETE Associate Degree for Transfer Roadmap</td>
<td></td>
</tr>
<tr>
<td>Middle East and Islamic Studies</td>
<td>887</td>
</tr>
<tr>
<td>Modern Greek Studies</td>
<td>889</td>
</tr>
<tr>
<td>Modern Languages and Literatures</td>
<td>890</td>
</tr>
<tr>
<td>Modern Languages and Literatures-Chinese</td>
<td>892</td>
</tr>
<tr>
<td>Bachelor of Arts in Chinese: Concentration in Chinese Language</td>
<td>892</td>
</tr>
<tr>
<td>Bachelor of Arts in Chinese: Concentration in Chinese Language Roadmap</td>
<td>896</td>
</tr>
<tr>
<td>Bachelor of Arts in Chinese: Concentration in Chinese Literature &amp;</td>
<td>898</td>
</tr>
<tr>
<td>Linguistics</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Arts in Chinese: Concentration in Chinese Literature &amp;</td>
<td>901</td>
</tr>
<tr>
<td>Linguistics Roadmap</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Arts in Chinese: Concentration in Flagship Chinese</td>
<td>903</td>
</tr>
<tr>
<td>Language Roadmap</td>
<td></td>
</tr>
<tr>
<td>Bachelor of Arts in Chinese: Concentration in Flagship Chinese</td>
<td>906</td>
</tr>
<tr>
<td>Language Roadmap</td>
<td></td>
</tr>
<tr>
<td>Minor in Chinese Language</td>
<td>908</td>
</tr>
<tr>
<td>Minor in Chinese Literature and Linguistics</td>
<td>908</td>
</tr>
<tr>
<td>Master of Arts in Chinese</td>
<td>908</td>
</tr>
<tr>
<td>Modern Languages and Literatures-French</td>
<td>910</td>
</tr>
<tr>
<td>Bachelor of Arts in French</td>
<td>910</td>
</tr>
<tr>
<td>Bachelor of Arts in French Roadmap</td>
<td>913</td>
</tr>
<tr>
<td>Minor in French</td>
<td>915</td>
</tr>
<tr>
<td>Master of Arts in French</td>
<td>915</td>
</tr>
<tr>
<td>Modern Languages and Literatures-German</td>
<td>917</td>
</tr>
<tr>
<td>Bachelor of Arts in German</td>
<td>917</td>
</tr>
<tr>
<td>Bachelor of Arts in German Roadmap</td>
<td>920</td>
</tr>
<tr>
<td>Minor in German</td>
<td>922</td>
</tr>
<tr>
<td>Master of Arts in German</td>
<td>922</td>
</tr>
<tr>
<td>Modern Languages and Literatures-Italian</td>
<td>923</td>
</tr>
<tr>
<td>Bachelor of Arts in Italian</td>
<td>923</td>
</tr>
<tr>
<td>Bachelor of Arts in Italian Roadmap</td>
<td>926</td>
</tr>
<tr>
<td>Minor in Italian</td>
<td>928</td>
</tr>
<tr>
<td>Master of Arts in Italian</td>
<td>928</td>
</tr>
<tr>
<td>Modern Languages and Literatures-Japanese</td>
<td>929</td>
</tr>
<tr>
<td>Bachelor of Arts in Japanese</td>
<td>929</td>
</tr>
</tbody>
</table>
Bachelor of Arts in Mathematics: Concentration in Teaching Roadmap .......................................................... 1237
Bachelor of Arts in Mathematics: Concentration in Teaching Roadmap .......................................................... 1237
Bachelor of Science in Applied Mathematics .......................................................... 1241
Bachelor of Science in Applied Mathematics Roadmap .......................................................... 1244
Bachelor of Science in Applied Mathematics - MATH Associate Degree for Transfer Roadmap .................................................. 1246
Bachelor of Science in Statistics .................................................................................. 1248
Bachelor of Science in Statistics Roadmap .......................................................... 1251
Bachelor of Science in Statistics - MATH Associate Degree for Transfer (ADT) Roadmap .................................................. 1253
Minor in Mathematics .................................................................................. 1255
Master of Arts in Mathematics .................................................................................. 1255
Physics and Astronomy .................................................................................. 1256
Bachelor of Arts in Physics .................................................................................. 1257
Bachelor of Arts in Physics Roadmap .......................................................... 1260
Bachelor of Arts in Physics - PHYS Associate Degree for Transfer Roadmap .................................................. 1262
Bachelor of Arts in Physics: Concentration in Astronomy .................................................................................. 1264
Bachelor of Arts in Physics: Concentration in Astronomy Roadmap .................................................. 1267
Bachelor of Arts in Physics: Concentration in Astronomy - PHYS Associate Degree for Transfer Roadmap .................................................. 1269
Bachelor of Science in Physics .................................................................................. 1271
Bachelor of Science in Physics Roadmap .......................................................... 1274
Bachelor of Science in Physics - PHYS Associate Degree for Transfer Roadmap .................................................. 1276
Bachelor of Science in Physics: Concentration in Astrophysics .................................................................................. 1278
Bachelor of Science in Physics: Concentration in Astrophysics Roadmap .................................................. 1281
Bachelor of Science in Physics: Concentration in Astrophysics - PHYS Associate Degree for Transfer Roadmap .................................................. 1283
Bachelor of Science in Physics: Concentration in Physics for Teaching .................................................................................. 1285
Bachelor of Science in Physics: Concentration in Physics for Teaching Roadmap .................................................. 1288
Bachelor of Science in Physics: Concentration in Physics for Teaching - PHYS Associate Degree for Transfer Roadmap .................................................. 1290
Minor in Astronomy .................................................................................. 1292
Minor in Physics .................................................................................. 1292
Master of Science in Physics .................................................................................. 1292
Master of Science in Physics: Concentration in Astronomy .................................................................................. 1293
Psychology .................................................................................. 1295
Bachelor of Arts in Psychology .................................................................................. 1296
Bachelor of Arts in Psychology Roadmap .......................................................... 1300
ABOUT THE UNIVERSITY

San Francisco State University, located in one of the world’s most vibrant and beautiful cities, is a recognized leader in addressing issues both global and close to home.

In the global arena, SF State ranks fourth in the nation among master’s institutions that host international students and ranks first among U.S. universities for the number of students who study abroad for an academic year. With a diverse range of students from almost every state and nearly 100 countries, the University community is a perfect setting for learning to succeed in a pluralistic society and global economy. In fact, our campus was ranked third among all U.S. universities for diversity by the Wall Street Journal.

SF State’s pioneering commitment to community and civic engagement is prevalent throughout the curriculum. More than 500 courses combine academic study with community involvement, and our location in a center of business, technology, and culture provides a laboratory for community-service projects, work-study opportunities, and internships. The University has been named by Princeton Review a “College with a Conscience,” classified as one of the Carnegie Foundation’s “Community Engagement” institutions; and consistently receives the Presidential Award in the President’s Higher Education Community Service Honor Roll, the highest federal recognition a college or university can receive for its commitment to community service.

Academic Life

Ever since it was established in 1899 as a teacher-training school, SF State has been known for its commitment to excellent teaching. Students work closely with senior professors and other instructors from freshman year through graduation. Trained in some of the finest institutions in the world, faculty members include winners of prestigious teaching awards, cutting-edge researchers, and professionals devoted to solving community problems.

SF State awards bachelor’s degrees in 77 academic areas with an additional 48 areas of concentration, master’s degrees in 63 academic areas with an additional 41 areas of concentration, and a doctorate in educational leadership. Programs offered jointly with University of California campuses include a Ph.D. in education with a concentration in special education with UC Berkeley, and a clinical doctorate, Doctor of Physical Therapy (D.P.T.) with UC San Francisco. In addition, SF State offers 16 credential programs and 41 certificate programs.

SF State’s motto is Experientia Docet – Experience Teaches. Graduates consistently say that hands-on learning was what helped them most when beginning their careers. Students apply their talents and classroom learning to real-world challenges through community-service learning, credit-earning internships, and participation with community-focused centers and institutes that address issues relating to health, education, the environment, business, child care and underserved communities.

Many innovative services contribute to a successful college experience. The Learning Assistance Center and the Community Access and Retention Program provide tutoring in study skills and core subjects. The Disability Programs and Resource Center secures access to all campus programs and activities for students, staff, and faculty with disabilities.

The value of an SF State education is seen in our graduates. Our cinema program has produced Academy Award winners, books by creative writing graduates have climbed best-seller lists, and pre-med graduates enjoy an excellent medical school acceptance rate.

Student Life

Student life is continually growing at SF State with various ways for students to get involved on campus. Nearly 220 student organizations, including fraternities and sororities, help students explore their interests and network with student peers, faculty, staff and alumni. The Associated Students, SF State’s student government, offers leadership opportunities, programs and services to enhance the student experience. Students can get involved in Campus Recreation by forming an intramural team, joining a sports club or participating in open rec.

Intercollegiate sports for women are basketball, cross country, indoor and outdoor track and field, soccer, softball, and volleyball. For men, SF State offers baseball, basketball, cross country, soccer, and wrestling. The University is a member of the California Collegiate Athletic Association, a NCAA Division II conference, for all sports except wrestling which is in the Rocky Mountain Athletic Conference.

Campus Recreation offers a variety of programs for students, faculty, and staff, including Aquatics, Fitness Classes, Informal Recreation, Intramural Sports and Sports Clubs. Intramural leagues include men’s, women’s and coed divisions offered in the fall and spring semesters. Intramural Sports include basketball, volleyball, indoor soccer, indoor soccer and flag football.

SF State is an arts and culture center, with hundreds of workshops, guest lectures and exhibits held throughout the year. Events and exhibits feature the work of students and faculty members as well as professionals from outside the University community.

Campus residence halls and apartments offer proximity to around-the-clock computer labs and study rooms, study and support groups, cultural activities and social events. Two residence halls, Mary Ward and Mary Park, and the Towers at Centennial Square Apartments, and Jr. Suites provide housing for first-year freshmen in the heart of campus.

Apartment-style living is available for second-year, transfer and graduate students at The Village at Centennial Square and University Park townhomes and apartments.

There are a variety of Living Learning Communities within the housing community for students who share a common academic focus such as science and technology, health and business. Programs, events, and support are provided.

Mission of the University

The mission of San Francisco State University is to create and maintain an environment for learning that promotes respect for and appreciation of scholarship, freedom, human diversity, and the cultural mosaic of the City of San Francisco and the Bay Area; to promote excellence in instruction and intellectual accomplishment; and to provide broadly accessible higher education for residents of the region and state, as well as the nation and world. To fulfill its mission, the University is committed to the following goals:

• Attracting, retaining and graduating a highly diverse student body;

• Providing disciplinary and interdisciplinary liberal arts and professional education that is academically rigorous and intellectually challenging;
• Providing curricula that reflect all dimensions of human diversity, and that encourage critical thinking and social and cultural awareness;
• Recruiting, retaining and supporting a diverse faculty whose teaching demonstrates an active engagement with their individual fields of study and whose creative and scholarly work is an extension of the classroom, laboratory or studio;
• Employing a staff and administration reflecting the diversity of the community and the values of the campus;
• Fostering a collegial and cooperative intellectual environment that includes recognition and appreciation of differing viewpoints and promotes academic freedom within the University community; and
• Serving the communities with which its students and faculty are engaged.

Accreditation
The University is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC). WASC is located at

985 Atlantic Avenue
Suite 100
Alameda, CA 94501

and the telephone number is (510) 748–9001. Various specialized programs at the University are accredited by the following agencies.

<table>
<thead>
<tr>
<th>Program</th>
<th>Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparel Design and Merchandising BS</td>
<td>American Association of Family and Consumer Sciences</td>
</tr>
<tr>
<td>Art BA/MA/MFA</td>
<td>National Association of Schools of Art and Design</td>
</tr>
<tr>
<td>Business Administration BS/MS/MBA</td>
<td>Association to Advance Collegiate Schools of Business</td>
</tr>
<tr>
<td>Chemistry BS</td>
<td>American Chemical Society</td>
</tr>
<tr>
<td>Cinema BA/MA/MFA</td>
<td>National Association of Schools of Art and Design</td>
</tr>
<tr>
<td>Civil Engineering BS</td>
<td>Accreditation Board for Engineering and Technology</td>
</tr>
<tr>
<td>Clinical Laboratory Science Graduate Internship Program</td>
<td>National Accrediting Agency for Clinical Laboratory Sciences</td>
</tr>
<tr>
<td>Communicative Disorders MS</td>
<td>American Speech-Language-Hearing Association</td>
</tr>
<tr>
<td>Counseling MS</td>
<td>Council for Accreditation of Counseling and Related Educational Programs</td>
</tr>
<tr>
<td>Dietetics BS and Graduate Internship Program</td>
<td>Commission on Accreditation for Dietetics Education</td>
</tr>
<tr>
<td>Drama BA/MA</td>
<td>National Association of Schools of Theatre</td>
</tr>
<tr>
<td>Education MA</td>
<td>National Council for Accreditation of Teacher Education</td>
</tr>
<tr>
<td>Electrical Engineering BS</td>
<td>Accreditation Board for Engineering and Technology</td>
</tr>
<tr>
<td>Family and Consumer Sciences BA</td>
<td>American Association of Family and Consumer Sciences</td>
</tr>
<tr>
<td>Hospitality and Tourism Management BS</td>
<td>Association to Advance Collegiate Schools of Business</td>
</tr>
</tbody>
</table>

Interior Design BS                            | American Association of Family and Consumer Sciences |
Journalism BA                                  | Accreditation Council on Education in Journalism and Mass Communications |
Mechanical Engineering BS                      | Accreditation Board for Engineering and Technology |
Music BA/MA/BM/MM                              | National Association of Schools of Music |
Nursing BS/MS                                  | State Board of Registered Nursing Commission on Collegiate Nursing Education |
Physical Therapy MS                            | Commission on Accreditation of Physical Therapy Education |
Psychology, Concentration in Clinical Psychology MS | California State Board of Behavioral Sciences |
Public Administration MPA                     | Network of Schools of Public Policy, Affairs, and Administration |
Public Health MPA                             | Council on Education for Public Health |
Recreation, Parks, and Tourism Administration BS | National Recreation and Park Association |
Rehabilitation Counseling MS                   | Council on Rehabilitation Education |
Social Work BA/MSW                             | Council on Social Work Education |
Special Education MA and Concentration in PhD in Education | National Council for Accreditation of Teacher Education |
Teacher Education Credential Programs          | California Commission on Teacher Credentialing |
Theatre Arts MFA: Concentration in Design and Technical Production | National Association of Schools of Theatre |

Administrative Officers

Executive Offices

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Leslie E. Wong</td>
</tr>
<tr>
<td>Executive Assistant to the President</td>
<td>Leshia Claudio</td>
</tr>
<tr>
<td>Chief of Staff</td>
<td>Alison Sanders</td>
</tr>
<tr>
<td>University Counsel</td>
<td>Dan Ojeda</td>
</tr>
<tr>
<td>Interim Provost and Vice President Academic Affairs</td>
<td>Jennifer Summit</td>
</tr>
<tr>
<td>Vice President, Student Affairs &amp; Enrollment Management, Title IX Coordinator &amp; DHR Administrator</td>
<td>Luoluo Hong</td>
</tr>
<tr>
<td>Vice President, University Advancement</td>
<td>Robert J. Nava</td>
</tr>
<tr>
<td>Interim Vice President Administration &amp; Finance</td>
<td>Ann M. Sherman</td>
</tr>
</tbody>
</table>

Academic Affairs

Interim Provost and Vice President Academic Affairs | Jennifer Summit

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Assistant to the Provost and Vice President Academic Affairs</td>
<td>Mona Sagapolutele</td>
</tr>
</tbody>
</table>
### Administrative Officers

**Associate Vice President, Academic Affairs Operations**  
Brian Beatty

**Director, Academic Technology**  
Maggie Beers

**Interim Associate Vice President, Academic Resources**  
Alan Jung

**Dean, College of Extended Learning**  
Guido Krickx

**Associate Vice President, Research and Sponsored Programs**  
Michael Scott

**Dean, Faculty Affairs and Professional Development**  
Sacha Bunge

**Interim Dean, Division of Graduate Studies**  
Mi-Sook Kim

**Interim Dean, Division of Undergraduate Education and Academic Planning**  
Lori Beth Way

**Associate Dean, Undergraduate Education**  
Kimberley Altura

**Interim Associate Dean, Academic Planning**  
Jane G. Dewitt

### Academic Deans

**Dean, College of Business**  
Linda Oubré

**Interim Dean, Graduate College of Education**  
Nancy Robinson

**Dean, College of Ethnic Studies**  
Kenneth Monteiro

**Dean, College of Health and Social Sciences**  
Alvin Alvarez

**Dean, College of Liberal & Creative Arts**  
Andrew Harris

**Dean, College of Science and Engineering**  
Keith Bowman

**University Librarian**  
Deborah Masters

### Student Affairs & Enrollment Management

**Vice President, Student Affairs & Enrollment Management, Title IX Coordinator & DHR Administrator**  
Luoluo Hong

**Chief of Staff to the Vice President & Title IX Coordinator**  
Anthony (Tony) Little

**Dean of Equity Initiatives**  
TBA

**Director, Human Relations**  
TBA

**Manager, Equity Programs & Compliance**  
Katon Dalton

**Interim Senior Associate Vice President & Dean of Students**  
Mary Ann Begley

**Assistant Dean of Students & Director, New Student Programs**  
Brian Stuart

**Assistant Dean of Students & Director, Student Conduct**  
Shiminia Harris

**Interim Assistant Dean of Students for AAPI Student Services**  
Arlene Daus-Magbual

**Director, Residential Life**  
David Rourke

**Director, Campus Recreation**  
Pamela Su

**Director, Career Services & Leadership Development**  
Orlando Harris

**Director, Student Activities & Events**  
Vacant

**Associate Vice President for Student Affairs**  
Eugene R. Chelberg

**Director, Counseling and Psychological Services Center**  
Derethia DuVal

**Acting Director, Disability Programs and Resource Center**  
Joan Bisagno

**Interim Medical Director, Student Health Service**  
Teresa Rebeiro

**Interim Director, Health Promotion & Wellness**  
Richard (Rick) Nizzardini

**Director, Children's Campus**  
Anna Tobin-Wallis

**Program Manager, Student Support Services**  
TBA

**Associate Vice President for International Education**  
Yenbo Wu

**Director, Office of International Programs**  
Hildy Heath

**Director, Confucius Institute**  
Jiaxin "Jack" Xie

**Interim Assistant Vice President for Enrollment Management**  
Re'e'shemah Thornton

**Director, Educational Opportunity Program**  
Oscar Gardea

**Director, Enrollment Management Technology**  
Philip Stilson

**Director, Student Financial Aid**  
Barbara Hubler

**Interim Director, Student Outreach Services**  
Maritza Pulido

**Director, Undergraduate Admissions**  
Edward Carrigan

**University Registrar**  
Renee Monte

**Assistant Vice President for Campus Safety & Chief of Police**  
Jason Wu

**Deputy Chief of Police**  
Reginald Parson

**Lieutenant**  
Wailun Shiu

**Lieutenant**  
Troy Liddi

**Associate Director, Operations, Parking & Transportation**  
Arlene "Joy" Manaois

### University Advancement

**Vice President, University Advancement**  
Robert J. Nava

**Executive Assistant to Vice President**  
Shannon Hart

**Chief of Operations**  
Venesia Thompson

**Associate Vice President, Marketing & Strategic Communications**  
Elizabeth Smith

**Associate Vice President, University Development**  
Mark Kelleher

**Executive Director, Government and Community Relations**  
Dominique Cano-Stocco

**Director, Athletics**  
Charles Guthrie
### Administration & Finance

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Director, Alumni Relations and Annual Fund</td>
<td>Vacant</td>
</tr>
<tr>
<td>Interim Vice President &amp; CFO</td>
<td>Ann M. Sherman</td>
</tr>
<tr>
<td>Executive Director of Administration</td>
<td>Jesus Garcia</td>
</tr>
<tr>
<td>Executive Director of Risk &amp; Analytics</td>
<td>Jay Orendorff</td>
</tr>
<tr>
<td>Associate Vice President of Business Operations</td>
<td>Grace Crickette</td>
</tr>
<tr>
<td>Associate Vice President of Audit &amp; Advisory Services</td>
<td>Maureen Pasag</td>
</tr>
<tr>
<td>Associate Vice President of Facilities &amp; Service Enterprises</td>
<td>Frank Fasano</td>
</tr>
<tr>
<td>Senior Associate Vice President of Physical Planning &amp; Development</td>
<td>Thomas Lollini</td>
</tr>
<tr>
<td>Associate Vice President of Capital Planning, Design &amp; Construction</td>
<td>Simon Y. Lam</td>
</tr>
<tr>
<td>Interim Executive Director of University Property Management</td>
<td>Jeny Valdez</td>
</tr>
<tr>
<td>Associate Vice President and Chief Information Officer of Information Technology Services</td>
<td>Nish Malik</td>
</tr>
<tr>
<td>Associate Vice President of Fiscal Affairs</td>
<td>Brian Fahnestock</td>
</tr>
<tr>
<td>Interim Associate Vice President of Human Resources</td>
<td>Cheree Carvalho Aguilar</td>
</tr>
<tr>
<td>Executive Director of Budget Administration &amp; Operations</td>
<td>Elena Stoian</td>
</tr>
<tr>
<td>Associate Director of Financial Management</td>
<td>Sesar Morfin</td>
</tr>
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</table>

### Auxiliary Units

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interim Executive Director, Associated Students</td>
<td>Aimee Zenzele Barnes</td>
</tr>
<tr>
<td>Assistant Executive Director, Human Resources</td>
<td>Jamila Ali</td>
</tr>
<tr>
<td>Associate Executive Director, Business Administration &amp; Finance</td>
<td>Edina Bajraktarevic</td>
</tr>
<tr>
<td>Executive Director of the University Corporation</td>
<td>Jason Porth</td>
</tr>
<tr>
<td>Foundation President, San Francisco State University Foundation</td>
<td>Robert J. Nava</td>
</tr>
</tbody>
</table>
Degrees Offered

Baccalaureate Degrees

Note: The numbers following the degrees are used by the university to identify the program indicated. These numbers must be used on the application for admission, registration forms, application for graduation, etc.

Bachelor of Arts

- Africana Studies (p. 345) 22111
- American Indian Studies (p. 355) 22121
- American Studies (p. 606) 03131
- Anthropology (p. 614) 22021
- Art (p. 624) 10021
  - Concentrations in:
    - Art Education
    - Art History
    - Studio Art
    - Art History and Studio Art
- Asian American Studies (p. 365) 22996
- Biology (p. 1033) 04011
- Broadcast and Electronic Communication Arts (p. 662) 06051
- Chemistry (p. 1106) 19051
- Child and Adolescent Development (p. 406) 08231
  - Concentrations in:
    - Early Childhood
    - School Age Child and Family
    - Youth Work and Out of School Time
    - Policy, Advocacy, and Systems
- Chinese (p. 892) 11071
  - Concentrations in:
    - Chinese Language
    - Chinese Literature and Linguistics
    - Flagship Chinese Language
- Cinema (p. 675) 10101
- Classics (p. 701) 15041
- Communication Studies (p. 707) 06011
- Comparative and World Literature (p. 719) 15031
- Criminal Justice Studies (p. 474) 21051
- Dance (p. 749) 10081
- Drama (p. 1012) 10071
- Earth Sciences (p. 1141) 19171
- Economics (p. 228) 22041
- English (p. 769) 15011
  - Concentrations in:
    - Creative Writing (p. 731) 15071
    - English Education (p. 769) 15011
    - Individual Major (p. 769) 15011
    - Linguistics (p. 769) 15051
- Literature (p. 769) 15021
- Environmental Studies (p. 492) 49101
- Family and Consumer Sciences (p. 438) 13011
- French (p. 910) 11021
- Geography (p. 1198) 22061
- German (p. 917) 11031
- History (p. 818) 22051
  - Concentration in Honors Program (p. 818) 22051
- Humanities (p. 834) 15991
- International Relations (p. 845) 22101
- Italian (p. 923) 11041
- Japanese (p. 929) 11081
- Journalism (p. 862) 06021
  - Concentrations in:
    - Photojournalism
    - Print and Online Journalism
- Labor and Employment Studies (p. 267) 22993
- Latina/Latino Studies (p. 379) 22131
- Liberal Studies (p. 876) 49012
- Mathematics 17011 (p. 1219)
  - Concentrations in:
    - Mathematics for Advanced Studies (p. 1219)
    - Mathematics for Liberal Arts (p. 1219)
    - Mathematics for Teaching (p. 1219)
- Modern Jewish Studies (p. 1219) 15102
- Music (p. 949) 10051
- Philosophy (p. 971) 15091
- Philosophy and Religion (p. 971) 15992
- Physics (p. 1256) 19021
  - Concentration in Astronomy 19111 (p. 1256)
- Political Science (p. 1001) 22071
- Psychology (p. 1295) 20011
- Social Work (p. 580) 21041
- Sociology (p. 590) 22081
- Spanish (p. 938) 11051
- Special Major (p. 1312) 49993
- Technical and Professional Writing (p. 769) 15997
- Urban Studies and Planning (p. 599) 22141
- Women and Gender Studies (p. 1023) 22990

Bachelor of Music (p. 949) 10041

Bachelor of Science

- Apparel Design and Merchandising (p. 438) 13031
- Applied Mathematics (p. 1219) 17031
- Biochemistry (p. 1106) 04141
- Biology 04011
  - Concentrations in:
    - Botany (p. 1033) 04021
    - Cell and Molecular Biology (p. 1033) 04171
• Ecology (p. 1033) 04011
  • Marine Biology and Limnology (p. 1033) 04181
  • Microbiology (p. 1033) 04111
  • Physiology (p. 1033) 04101
  • Zoology (p. 1033) 04071

• Business Administration 05011 (p. 199)
  • Concentrations in:
    • Accounting (p. 200) 05021
    • Decision Sciences (p. 222) 05071
    • Entrepreneurial/Small Business Management (p. 199) 05996 (temporarily suspended)
    • Finance (p. 237) 05041
    • General Business 05011
    • Information Systems (p. 254) 07021
    • International Business (p. 260) 05131
    • Management (p. 273) 05061
    • Marketing (p. 279) 05091

• Chemistry (p. 1106) 19051
  • Communicative Disorders (p. 701) 12201
  • Computer Science (p. 1129) 07011
  • Dietetics (p. 438) 13061
  • Earth Sciences (p. 1141) 19171
  • Engineering, Civil (p. 1166) 09081
  • Engineering, Computer (p. 1166) 09094
  • Engineering, Electrical (p. 1166) 09091
  • Engineering, Mechanical (p. 1166) 09101
  • Environmental Science (p. 1198) 49011
  • Environmental Studies (p. 492) 49101
    • Concentration in:
      • Natural Resource Management and Conservation

• Health Education (p. 509) 12011
• Hospitality and Tourism Management (p. 248) 05081
• Industrial Design (p. 757) 08391
  • Concentration in:
    • Product Design and Development (p. 757)

• Interior Design (p. 438) 02031
• Kinesiology (p. 525) 08351
  • Concentrations in:
    • Exercise and Movement Sciences (p. 525)
    • Physical Education (p. 525)

• Nursing (p. 544) 12031
• Physics 19021
  • Concentrations in:
    • Astrophysics (p. 1256) 19111
    • Physics for Teaching (p. 1256) 19021

• Recreation, Parks, and Tourism Administration (p. 567) 21031
• Statistics (p. 1219) 17021
• Visual Communication Design (p. 757) 06012
Post–Baccalaureate Degrees

Note: The numbers following the degrees are used by the university to identify the program indicated. These numbers must be used on the application for admission, registration forms, application for graduation, etc.

Master of Arts

- Anthropology (p. 614) 22021
- Art (p. 624) 10021
- Asian American Studies (p. 365) 22996
- Broadcast and Electronic Communication Arts (p. 662) 06051
- Chinese (p. 892) 11071
- Cinema Studies (p. 675) 10101
- Classics (p. 701) 15041
- Communication Studies (p. 707) 06011
- Comparative Literature (p. 719) 15031
- Design (p. 757) 10023
- Economics (p. 228) 22041
- Education 08011
  - Concentrations in:
    - Adult Education (p. 298) 08071
    - Early Childhood Education (p. 311)
    - Educational Administration (p. 298) 08271
    - Elementary Education (p. 311) 08021
    - Equity and Social Justice in Education (p. 298)
    - Instructional Technologies (p. 298) 08992
    - Language and Literacy Education (p. 311)
    - Mathematics Education (p. 311) 08997
    - Secondary Education (p. 316) 08031
    - Special Interest Area (p. 298) 08993
- English
  - Concentrations in:
    - Composition (p. 769) 15013
    - Creative Writing (p. 731) 15071
    - Linguistics (p. 769) 15051
    - Literature (p. 769) 15021
    - Teaching English to Speakers of Other Languages (p. 769) 15081
- Ethnic Studies (p. 376) 22991
- Family and Consumer Sciences (p. 438) 13011
- French (p. 910) 11021
- Geography (p. 1198) 22061
  - Concentration in Resource Management and Environmental Planning (p. 1198) 22061
- German (p. 917) 11031
- Gerontology (p. 505) 21043
- History (p. 818) 22051
- Human Sexuality Studies (p. 576) 49019
- Humanities (p. 834) 15991
- Interdisciplinary Studies (p. 1311) 49993
- International Relations (p. 845) 22101
- Italian (p. 923) 11041
- Japanese (p. 929) 11081
- Mathematics (p. 1219) 17011
- Museum Studies (p. 946) 49036
- Music (p. 949) 10051
- Philosophy (p. 971) 15091
- Political Science (p. 1001) 22071
- Psychology
  - Concentrations in:
    - Developmental Psychology (p. 1295) 20091
    - Mind, Brain, and Behavior (p. 1295) 20011
    - Social Psychology (p. 1295) 20051
- Spanish (p. 938) 11051
- Special Education (p. 319) 08081
- Theatre Arts (p. 1012) 10071
- Women and Gender Studies (p. 1023) 22990

Master of Business Administration (p. 287) 05011

Master of Fine Arts

- Art (p. 624) 10022
- Cinema (p. 675) 10102
- Creative Writing (p. 731) 15071
- Theatre Arts 10072
  - Concentration in: Design/Technical Production (p. 1012)

Master of Music (p. 949) 10041

Master of Public Administration (p. 563) 21021

Master of Public Health (p. 509) 12141

Master of Science

- Accountancy (p. 200) 05021
- Biology (p. 1033)
  - Concentrations in:
    - Cell and Molecular Biology (p. 1033) 04171
    - Ecology, Evolution, and Conservation Biology (p. 1033) 04011
    - Marine Biology (p. 1033) 04181
    - Microbiology (p. 1033) 04111
    - Physiology and Behavioral Biology (p. 1033) 04101
- Biomedical Science 04153
  - Concentrations in:
    - Biotechnology (p. 1033)
    - Stem Cell Science (p. 1033)
- Chemistry (p. 1106) 19051
  - Concentration in Biochemistry (p. 1106)
- Clinical Mental Health Counseling (p. 466) 12221
- Communicative Disorders (p. 319) 12201
• Computer Science (p. 1129) 07011
  • Counseling (p. 466) 08261
    • Concentration in Marriage, Family, and Child Counseling (p. 466) 13051

• Engineering (p. 1166) 09011
  • Concentrations in:
    • Structural/Earthquake Engineering (p. 1166)
    • Embedded Electrical and Computer Systems (p. 1166)
    • Energy Systems (p. 1166) 09013

• Geographic Information Science (p. 1198) 17023
• Geosciences (p. 1198) 19141
• Interdisciplinary Studies (p. 1311) 49993
• Kinesiology (p. 525) 08351
• Marine Science (p. 1218) 49022
• Nursing (p. 544) 12031
  • Concentration in Family Nurse Practitioner (p. 544)

• Physics (p. 1256) 19021
  • Concentration in Astronomy (p. 1256)

• Psychology
  • Concentrations in:
    • Clinical Psychology (p. 1295) 20031
    • Industrial/Organizational Psychology (p. 1295) 20081
    • School Psychology (p. 1295) 20013

• Recreation, Parks and Tourism (p. 567) 21031

**Master of Social Work (p. 580) 21041**  
**Doctor of Education in Educational Leadership (p. 306) (Ed.D.) 08272**  
**Doctor of Philosophy in Education**
  • Concentration in Special Education (p. 319) (Ph.D.) 08081

**Doctor of Physical Therapy (p. 558) (D.P.T.) 12121**

Notes

1 Program offered in cooperation with other CSU campuses at Moss Landing Marine Laboratories.
2 Offered jointly with the University of California, San Francisco.
3 Offered jointly with the University of California, Berkeley.
Minor Programs

Accounting (p. 200)
African Studies (p. 605)
Africana Studies (p. 345)
American Indian Studies (p. 355)
American Studies (p. 606)
Animation (p. 675)
Anthropology (p. 614)
Arab and Muslim Ethnicities and Diasporas Studies (p. 364)
Art (p. 624)
Asian American Studies (p. 365)
Astronomy (p. 1256)
Athletic Coaching (p. 525)
Biology (p. 1033)
Business Administration (p. 199)
California Studies (p. 674)
Chemistry (p. 1106)
Chinese (p. 892)
Cinema (p. 675)
Civil Engineering (p. 1166)
Classics (p. 701)
Communication Studies (p. 707)
Comparative Literature (p. 719)
Computer Engineering (p. 1166)
Computer Science (p. 1129)
Counseling (p. 466)
Criminal Justice Studies (p. 474)
Critical Social Thought (p. 747)
Dance (p. 749)
Decision Sciences (p. 222)
Drama (p. 1012)
Earth Sciences (p. 1141)
Economics (p. 228)
Education (p. 309)
Electrical Engineering (p. 1166)

English and American Literature (p. 769)
Entrepreneurial/Small Business Management (Temporarily Suspended)
European Studies (p. 813)
Finance (p. 237)
French (p. 910)
Geography (p. 1198)
German (p. 917)
Global Peace, Human Rights, and Justice Studies (p. 816)
Health Education (p. 509)
History (p. 818)
Holistic Health (p. 509)
Hospitality and Tourism Management (p. 260)
Human Sexuality Studies (p. 576)
Humanities (p. 834)
Industrial Arts (p. 757)
Information Systems (p. 254)
International Business (p. 260)
International Relations (p. 845)
Italian (p. 923)
Japanese (p. 929)
Jewish Studies (p. 853)
Journalism (p. 862)
Labor and Employment Studies (p. 267)
Latin American Studies (p. 874)
Latina/Latino Studies (p. 379)
Lesbian, Gay, Bisexual, and Transgender Studies (p. 1023)
Linguistics (p. 769)
Management (p. 273)
Marketing (p. 279)
Mathematics (p. 1219)
Mechanical Engineering (p. 1166)
Middle East and Islamic Studies (p. 887)
Modern Greek Studies (p. 889)
Museum Studies (p. 946)
Music (p. 949)
Pacific Asian Studies (p. 969)
Persian Studies (p. 936)
Philosophy (p. 971)
Philosophy and Religion (p. 971)
Physics (p. 1256)
Political Science (p. 1001)
Psychology (Temporarily Suspended)
Race and Resistance Studies (p. 392)
Recreation (p. 525)
Religious Studies (p. 1010)
Russian (p. 937)
Sociology (p. 590)
South Asian Studies (p. 1011)
Spanish (p. 938)
Special Education (p. 319)
Technical and Professional Writing (p. 769)
Urban Studies and Planning (p. 599)
Women and Gender Studies (bulletin.sfsu.edu/colleges/liberal-creative-arts/women-gender-study)
Women's Health Issues (p. 509)
World Development Studies (p. 285)
World Music and Dance (p. 949)
Certificate Information

General Information
A student wishing to earn an undergraduate or graduate certificate at San Francisco State University is expected to follow the basic university requirements and procedures outlined herein. In addition, the prescribed program requirements of the desired certificate must be completed. More detailed information regarding a specific certificate may be obtained by contacting the academic unit offering the program.

Purpose of Certificate Programs
A certificate program is a coherent set of academic courses that does not lead to a degree, but is focused on a substantial area of study that may be practically oriented toward skills and/or occupations. Such a program is designed to meet special needs, especially those with a limited time to learn specific subjects, concepts, skills, and competencies. The award of a certificate means the holder has completed the required courses and related work at an acceptable level of academic accomplishment. The certificate indicates to a prospective employer that the university validates the particular program of study. It neither credentials nor licenses the student, nor does it guarantee the ability of the student to put into practice what has been studied.

Acceptance to Certificate Programs
Guidelines for Acceptance to Undergraduate Certificate Programs
To be accepted to an undergraduate certificate program, a student must have completed 56 semester units of undergraduate course work with a 2.0 (C) grade point average. Exceptions may be permitted upon presentation of special justification to the Dean of Undergraduate Studies or appropriate program administrator for Extended Learning programs.

Students interested in pursuing an undergraduate certificate program should contact the offering department regarding specific program requirements and procedures. For certificate programs offered through Extended Learning, students should contact the program area as shown in the program description.

Guidelines for Acceptance to Graduate Certificate Programs
Admission to Post-Baccalaureate Status
• A student who is already enrolled in the university as a post-baccalaureate student (i.e., pursuing a graduate degree, a credential program, or in unclassified status) may apply to a certificate program.
• A student who is interested in pursuing a certificate program may apply to the university as a post-baccalaureate classified student. Note: It is recommended that the student seek admission, if appropriate, to a degree program within the sponsoring department so that graduate units taken may be considered, where permitted, for later application towards a degree. Not more than twelve (12) units taken as an unclassified student may be applied toward the requirements for a graduate degree.

Acceptance to Certificate Program
A student enrolled, or eligible to enroll, in the university as a post-baccalaureate level student must contact the program offering the desired certificate to complete any prescribed requirements for acceptance to that program. Such requirements and procedures may include a supplementary application, a defined set of prerequisite courses, a designated GPA, written recommendations, etc., as may be appropriate for the program in question.

Basic University Certificate Program Requirements
The university requirements listed below are considered to be minimal and the academic department offering the program may impose additional or higher requirements for its specific certificate program(s). See the specific presentation in the Academic Programs section of this Bulletin or contact the department offering the certificate for further information.

Basic University Undergraduate Certificate Program Requirements
• Every student in an undergraduate certificate program must complete a minimum common core of course work (i.e., required of all students) consisting of at least 12 semester units. See specific program requirements.
• At least two-thirds of the units comprising an undergraduate certificate program must be at the upper division level. Graduate level courses may be used in special circumstances to satisfy program requirements at the discretion of the academic area offering the certificate.
• At least one-half of the required minimum number of units must be taken in residence. Credit by examination is permitted in accordance with established university regulations.
• At least two-thirds of the units applied toward meeting the requirements of an undergraduate certificate program must be graded on an A–F basis.
• The course work used to satisfy the requirements of an undergraduate certificate must be completed with a minimum cumulative grade point average of 2.0 (C), and only courses with a grade of CR, C–, or better, may be included to meet undergraduate certificate program requirements.
• Before completing an undergraduate certificate program, all students must demonstrate an appropriate level of writing competency as prescribed by the program area offering the certificate (see program requirements).
• Courses may be used to meet both a baccalaureate degree and an undergraduate certificate objective providing they are appropriate and acceptable toward the specific requirements of each program.
• There is normally no statutory period for units required for an undergraduate certificate at SF State. However, if any course required for the certificate was taken more than seven years prior to graduation, then departments and programs may require students to retake that course or demonstrate currency in that subject. Consult with the department for more information.

Basic University Graduate Certificate Program Requirements
• Every student in a graduate certificate program must complete a minimum common core of course work (i.e., required of all students) consisting of at least 9 semester units. See specific program requirements.
• At least one-half, but not less than six, of the units comprising a graduate certificate program must be in graduate level courses. Any undergraduate level course utilized in the program must be at the upper division level.
• At least two-thirds of the course units for the certificate must be taken in residence. Units earned through extension, including Open University enrollment, are not considered as work in residence.
• Curriculum requirements must be met explicitly without the use of waivers and substitutions.
• At least two-thirds of the required units for a certificate program must be graded on an A–F basis.
• At least two-thirds of the course units used to meet the requirements for the certificate must have been taken while in post-baccalaureate status. Course work taken prior to acceptance in the certificate program may not be used to meet program requirements, except in unusual circumstances. Approval must be granted in advance.
• The course work used to satisfy the requirements for a graduate certificate must be completed with a minimum cumulative grade point average of 3.0 (B), and only courses completed with a grade of C or better may be used to meet program requirements (i.e., C– grades and below are unacceptable).
• Before completing a graduate certificate program, all students must demonstrate an appropriate level of writing competency as prescribed by the program area offering the certificate (see program requirements).
• Courses may be used to meet both a master’s degree and a graduate certificate objective providing they are appropriate and acceptable toward the specific requirements of each program.
• All requirements for a graduate certificate program must be completed within a seven year time period defined as beginning with the date of registration for the first course used to meet the requirements for the certificate, and ending with the date the last requirement is completed. It is expected that the student will have filed an application for the award of the certificate within this same time period.

Observance of Certificate Requirements
A student planning to earn an undergraduate or graduate certificate must meet the requirements, as reflected in the university Bulletin, that are in effect

1. as of the date the student is officially accepted to a certificate program by the offering department (or in special circumstances the date of the first course used to meet the requirements for the certificate, providing continuous enrollment in the university has been maintained) or
2. as of the date the application for the award of the certificate is filed in the Graduate Division (for both undergraduate and graduate certificates).

Advising and Registration
Advising assistance will be provided by the program faculty responsible for offering the program.

Registration for required courses will be accomplished by means of the normal registration process of the university or through Extended Learning registration procedures for Extended Learning certificate programs.

Applying for Award of the Certificate
When all the requirements for either an undergraduate or graduate certificate program have been completed, the following steps must be taken to apply for the certificate, to have the completion of the requirements checked, and to have the certificate awarded to the student.

Note that the Graduate Division is responsible for the final processing requirements for both undergraduate and graduate certificates. Graduation for Extended Learning certificates is processed through the Extended Learning Office.

The student prepares a Certificate Approved Program (CAP) form (available in the department, Undergraduate Studies, Graduate Studies, or sfusu.edu/~gradstdy/cap.htm and forwards it, along with transcript(s) showing the completion of all course requirements, to the department chair of the area offering the certificate program.

The chair is responsible for determining that all the requirements for the certificate have been satisfactorily completed. This is accomplished by signing the CAP form.

After paying the application fee ($7.00) for the award of the certificate at the Cashier’s Office and having the CAP form stamped “Paid,” the student is responsible for filing

1. the signed CAP form,
2. the supporting transcript(s), and
3. the evidence of the fee paid, in the Graduate Division (for both undergraduate and graduate certificates).

The Graduate Division is responsible for reviewing the materials received and authorizing the issuance of the undergraduate or graduate certificate on behalf of the department/program area and in the name of the university. This is accomplished by the Dean of Undergraduate Studies or the Graduate Division, as appropriate, signing the certificate and returning it along with two signed copies of the CAP form to the department/program area. Upon receipt, the department/program chair signs the official certificate and arranges to issue it, along with a copy of the CAP form, to the student. A second copy of the signed CAP form is to be retained by the department/program area for its records.

Certificates
Undergraduate Certificates

<table>
<thead>
<tr>
<th>Certificates</th>
<th>Department/Program Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Coaching (p. 542)</td>
<td>Kinesiology</td>
</tr>
<tr>
<td>Biotechnology (p. 1099)</td>
<td>Biology</td>
</tr>
<tr>
<td>Commercial Real Estate (p. 293)</td>
<td>College of Business</td>
</tr>
<tr>
<td>Conflict Resolution (p. 729)</td>
<td>College of Business, College of Ethnic Studies, College of Health and Social Sciences, and College of Liberal &amp; Creative Arts</td>
</tr>
<tr>
<td>Cooperative Education (p. 1140)</td>
<td>College of Science and Engineering</td>
</tr>
<tr>
<td>Digital Animation (p. 394)</td>
<td>College of Extended Learning</td>
</tr>
<tr>
<td>Film and Media Studies (p. 396)</td>
<td>Department of Cinema and College of Extended Learning</td>
</tr>
<tr>
<td>Holistic Health (p. 521)</td>
<td>Health Education and College of Extended Learning</td>
</tr>
<tr>
<td>Hospitality and Tourism Management (p. 248)</td>
<td>College of Business and College of Extended Learning</td>
</tr>
<tr>
<td>Information Technology Auditing (p. 293)</td>
<td>Information Systems and Decision Sciences</td>
</tr>
<tr>
<td>International Business (p. 293)</td>
<td>College of Business and College of Extended Learning</td>
</tr>
<tr>
<td>Program</td>
<td>Department/Program Office</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>----------------------------------------------------------------</td>
</tr>
<tr>
<td>Music/Recording Industry (p. 397)</td>
<td>College of Extended Learning</td>
</tr>
<tr>
<td>Paralegal Studies (p. 398)</td>
<td>College of Extended Learning</td>
</tr>
<tr>
<td>Pre-Health Professions (p. 400)</td>
<td>College of Science and Engineering and College of Extended Learning</td>
</tr>
<tr>
<td>Pre-Nursing (p. 402)</td>
<td>College of Science and Engineering and College of Extended Learning</td>
</tr>
<tr>
<td>Public Accountancy, Study of (p. 294)</td>
<td>College of Business and College of Extended Learning</td>
</tr>
<tr>
<td>Spanish/English Interpretation (p. 405)</td>
<td>College of Extended Learning</td>
</tr>
<tr>
<td>Screenwriting (p. 404)</td>
<td>Department of Cinema</td>
</tr>
<tr>
<td>Technical and Professional Writing (p. 805)</td>
<td>Center for Humanistic Studies/</td>
</tr>
<tr>
<td>Weather Study (p. 1164)</td>
<td>College of Liberal &amp; Creative Arts</td>
</tr>
<tr>
<td>Youth and Human Services Non-profit Agency Administration (p. 573)</td>
<td>Recreation, Parks, and Tourism</td>
</tr>
</tbody>
</table>

### Graduate Certificates

<table>
<thead>
<tr>
<th>Certificates</th>
<th>Department/Program Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting (p. 292)</td>
<td>College of Business</td>
</tr>
<tr>
<td>Augmentative and Alternative Communication (p. 326)</td>
<td>Special Education</td>
</tr>
<tr>
<td>Autism Spectrum (p. 327)</td>
<td>Special Education</td>
</tr>
<tr>
<td>Business Certificate in Ethics &amp; Compliance (p. 291)</td>
<td>College of Business</td>
</tr>
<tr>
<td>Clinical Laboratory Science Internship (p. 561)</td>
<td>Physical Therapy</td>
</tr>
<tr>
<td>Counseling Deaf Persons (p. 468)</td>
<td>Counseling</td>
</tr>
<tr>
<td>Counseling Deafened and Hard of Hearing Persons (p. 468)</td>
<td>Counseling</td>
</tr>
<tr>
<td>Dietetics (p. 463)</td>
<td>Department of Family Interior Nutrition &amp; Apparel and College of Extended Learning</td>
</tr>
<tr>
<td>Early Childhood Special Education</td>
<td>Special Education</td>
</tr>
<tr>
<td>Ethnic Studies (p. 376)</td>
<td>College of Ethnic Studies</td>
</tr>
<tr>
<td>Exercise Physiology (p. 525)</td>
<td>Department of Kinesiology</td>
</tr>
<tr>
<td>Family Nurse Practitioner (p. 551)</td>
<td>Nursing and College of Extended Learning</td>
</tr>
<tr>
<td>Genetic Engineering (p. 1099)</td>
<td>Biology</td>
</tr>
<tr>
<td>Guide Dog Mobility (p. 321)</td>
<td>Special Education</td>
</tr>
<tr>
<td>Immigrant Literacies (p. 804)</td>
<td>English</td>
</tr>
<tr>
<td>Movement Science (p. 525)</td>
<td>Department of Kinesiology</td>
</tr>
<tr>
<td>Physical Activity: Social Scientific Perspectives (p. 525)</td>
<td>Department of Kinesiology</td>
</tr>
<tr>
<td>Reading (p. 332)</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Rehabilitation Counseling (p. 466)</td>
<td>Counseling</td>
</tr>
<tr>
<td>Teaching of Composition (p. 805)</td>
<td>English</td>
</tr>
</tbody>
</table>
Credentials

Teaching Credentials

• Multiple Subject Credential, TK-5th grade (p. )
• Multiple Subject Credential, Bilingual Authorization (Cantonese, Mandarin, or Spanish (p. ))
• Single Subject Instruction (p. )
• Education Specialist Instruction
  • Early Childhood Special Education (p. )
  • Mild/Moderate Disabilities (p. )
  • Moderate/Severe Disabilities (p. )
  • Physical and Health Impairment (p. )
  • Visual Impairment (p. )

School Services Credentials

• Administrative Services (p. )
• Clinical or Rehabilitative Services: Orientation and Mobility (p. )
• Pupil Personnel Services:
  • School Counseling (p. )
  • School Psychology (p. )
  • School Social Work (p. )
• Speech – Language Pathology Services: Language, Speech, and Hearing (p. )

Specialist Credentials

• Reading and Literacy Leadership Specialist Credential (p. )
California State University

Welcome to the California State University (CSU) – the nation’s largest comprehensive higher education system with 23 unique campuses serving more than 474,000 students with 49,000 employees statewide. Each year, the university awards more than 100,000 degrees. CSU graduates now total more than 3 million strong and are serving as leaders in the industries that drive California’s economy, including business, agriculture, entertainment, engineering, teaching, hospitality, and healthcare. Learn more at wcalstate.edu (http://www.calstate.edu).

More Than 50-Year Tradition of Excellence

Since 1961, the CSU has provided an affordable, accessible, and high-quality education to three million graduates around the state of California. While each campus is unique based on its curricular specialties, location, and campus culture, every CSU is distinguished for the quality of its educational programs. All campuses are fully accredited, provide a high-quality broad liberal educational program and offer opportunities for students to engage in campus life through the Associated Students, Inc., clubs and service learning. Through leading-edge programs, superior teaching, and extensive workforce training opportunities, CSU students graduate with the critical thinking skills, industry knowledge and hands-on experience necessary for employment and career advancement.

Facts

- CSU faculty attract nearly $570 million annually in research and education grants, and contracts by federal, state and regional agencies.
- Today, one of every 20 Americans with a college degree is a CSU graduate.
- One in every ten employees in California is a CSU alumnus.
- The CSU awards 45 percent of the bachelor’s degrees earned in California.
- More than half of all the nurses in the state earn their degrees from the CSU.
- The CSU awards 95 percent of the hospitality/tourism degrees in the state.
- Nearly half of all of the state’s engineers earn their degrees from the CSU.
- The CSU is the leading provider of teacher preparation programs in the state.
- The CSU offers more than 115 fully online and 96 hybrid degree programs and concentrations.
- The CSU offers 3,250 online courses to provide more educational options to students who may prefer an online format to a traditional classroom setting.
- The CSU’s growing online concurrent enrollment program gives students the ability to enroll in courses offered by other campuses in the CSU system.
- Over the past four years, the CSU has issued nearly 50,000 professional development certificates in education, health services, business and technology, leisure and hospitality, manufacturing, international trade and many other industries.
- Nearly half of the CSU’s 474,000 students are engaged in some type of community service, totaling 32 million hours of service annually.
- More than 13,000 students participate in STEM (science, technology engineering, and mathematics) service-learning courses.
- For every $1 that the state invests in the CSU, the university generates $5.43 for California’s Economy.

Governance

The system is governed by the Board of Trustees, most of whom are appointed by the governor and serve with faculty and student representatives. The CSU Chancellor is the chief executive officer, reporting to the Board. The campus presidents serve as the campus-level chief executive officers. The Trustees, Chancellor and Presidents develop systemwide educational policy. The Presidents, in consultation with the Academic Senate and other campus stakeholder groups, render and implement local policy decisions.

CSU Historical Milestones

The individual California State Colleges were established as a system with a Board of Trustees and a Chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the CSU is comprised of 23 campuses, including comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus—San José State University—was founded in 1857 and became the first institution of public higher education in California. The newest—CSU Channel Islands—opened in fall 2002, with freshmen arriving in fall 2003.

In 1963, the State Academic Senate was established to act as the official voice of CSU faculty in systemwide matters. Also, the California State College Student Presidents Association—which was later renamed the California State Students Association—was founded to represent each campus student association on issues affecting students.

Through its many decades of existence, the CSU has continued to adapt to address societal changes, student needs, and workforce trends. While the CSU’s core mission has always focused on providing high-quality, affordable bachelor’s and master’s degree programs, over time the university has added a wide range of services and programs to support student success— from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

To improve degree completion and accommodate students working full- or part-time, the educational paradigm expanded to give students the ability to complete upper-division and graduate requirements through part-time, late afternoon, and evening study. The university also expanded its programs to include a variety of teaching and school service credential programs, specially designed for working professionals.

The CSU marked another significant educational milestone when it broadened its degree offerings to include doctoral degrees. The CSU independently offers educational doctorate (Ed.D.), Doctor of Physical Therapy (D.P.T.), and Doctor of Nursing Practice (D.N.P.) degree programs. A limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

In 2010, in an effort to accommodate community college transfer students, the university, in concert with the California Community
Colleges, launched the Associate Degree for Transfer, which guarantees transfer students admission to the CSU with junior status.

Always adapting to changes in technology and societal trends to support student learning and degree completion, the CSU initiated another milestone in 2013, when it launched Cal State Online, a systemwide collection of services that support the delivery of fully online programs from campuses. Now, full-time students also have access to fully online courses offered at other CSU campuses.

By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni that is so extensive and renowned that it spans across the globe. In 2014–15, the CSU celebrated The Class of Three Million, the year-round campaign celebrating the three million alumni from all of CSU’s campuses, including the Class of 2015.

The CSU strives to continually develop innovative programs, services, and opportunities that will give students the tools they need to meet their full potential. With 23 campuses, 474,000 students and 49,000 faculty and staff, the CSU is committed to providing a quality higher education that prepares students to become leaders in the changing workforce.

Office of the Chancellor

The California State University
401 Golden Shore
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(562) 951-4000

Dr. Timothy P. White
Chancellor, CSU System

Mr. Steve Relyea
Executive Vice Chancellor and Chief Financial Officer

Dr. Loren J. Blanchard
Executive Vice Chancellor, Academic and Student Affairs

Mr. Famroze Virjee
Executive Vice Chancellor, General Counsel

Mr. Garrett P. Ashley
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Mr. Andrew Jones
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Mr. Larry Mandel
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Famroze Virjee
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Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

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Maggie White (2017)

Correspondence with Trustees should be sent to:

c/o Trustees Secretariat
The California State University
401 Golden Shore
Long Beach, CA 90802-4210

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California State University, San Marcos
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San Marcos, CA 92096–0001
Dr. Karen S. Haynes, President
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Sonoma State University
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Rohnert Park, CA 94928
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www.sonoma.edu (http://www.sonoma.edu)

California State University, Stanislaus
One University Circle
Turlock, CA 95382
Dr. Ellen N. Junn President
(209) 667–3122
www.csustan.edu (http://www.csustan.edu)

Visit the website for the entire California State University:
www.csumentor.edu (http://www.csumentor.edu) for helpful hints,
frequently asked questions, campus tours and general information about
all 23 campuses.
COLLEGES

San Francisco State University is composed of six colleges, which are comprised of more than seventy-five schools and departments offering over two hundred academic programs, majors, minors, concentrations, and credential and certificate programs.

College of Business

College Administrative Offices

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean of the College</td>
<td>Linda Oubre</td>
<td>BUS 321</td>
<td>338-3650</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Yim-Yu Wong</td>
<td>BUS 321</td>
<td>338-3969</td>
</tr>
<tr>
<td>Director of Finance and Operations</td>
<td>Bonnie Li</td>
<td>BUS 354</td>
<td>338-7387</td>
</tr>
<tr>
<td>Assistant Dean</td>
<td>Jeff Chun</td>
<td>BUS 326</td>
<td>338-7097</td>
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<tr>
<td>Faculty Director of Graduate Programs</td>
<td>Sanjit Sengupta</td>
<td>DTC 600</td>
<td>817-4366</td>
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<tr>
<td>Director of Graduate Admissions &amp; Recruitment</td>
<td>Manuel Maranan</td>
<td>DTC 600</td>
<td>817-4323</td>
</tr>
<tr>
<td>Director of Graduate Business Student Advising</td>
<td>Christopher Kingston</td>
<td>DTC 600</td>
<td>817-4322</td>
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<tr>
<td>Director of Student Services (Advising) Center</td>
<td>Albert Koo</td>
<td>BUS 112</td>
<td>405-0376</td>
</tr>
<tr>
<td>Assistant Director of Career Development</td>
<td>Heidi Yu</td>
<td>BUS 137</td>
<td>338-2509</td>
</tr>
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College Directory

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<th>Department/Program</th>
<th>Chair/ Director</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>Jiunn Huang</td>
<td>SCI 300</td>
<td>338-1107</td>
</tr>
<tr>
<td>Decision Sciences</td>
<td>Susan Cholette</td>
<td>BUS 310</td>
<td>338-2138</td>
</tr>
<tr>
<td>Economics</td>
<td>Don Mar</td>
<td>HSS 142</td>
<td>338-1839</td>
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<td>Finance</td>
<td>Ping Hsiao</td>
<td>SCI 300</td>
<td>338-1754</td>
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<td>Hospitality and Tourism Management</td>
<td>Andrew Walls</td>
<td>BUS 336</td>
<td>338-1023</td>
</tr>
<tr>
<td>Information Systems</td>
<td>David Chao</td>
<td>BUS 310</td>
<td>338-2138</td>
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<tr>
<td>International Business</td>
<td>Nini Yang</td>
<td>SCI 300</td>
<td>338-1754</td>
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<tr>
<td>Labor and Employment Studies</td>
<td>John Logan</td>
<td>BUS 310</td>
<td>338-2138</td>
</tr>
<tr>
<td>Management</td>
<td>Tom Thomas</td>
<td>BUS 310</td>
<td>338-2138</td>
</tr>
<tr>
<td>Marketing</td>
<td>Judi Strebel</td>
<td>SCI 300</td>
<td>338-1754</td>
</tr>
</tbody>
</table>

All degree programs in the College of Business are accredited by AACSB International (Association for the Advancement of Collegiate Schools of Business). The College of Business offers the following undergraduate degrees:

Bachelor of Arts

- Economics 22041
- Labor and Employment Studies 22993

Bachelor of Science

- Business Administration with the following concentrations:
  - Accounting 05021
  - Decision Sciences 05071
  - Entrepreneurial/Small Business Management 05996 (temporarily suspended)
  - Finance 05041 and Certificate in Commercial Real Estate
  - Information Systems 07021
  - International Business 05131
  - Management 05061
  - Marketing 05091
  - Hospitality and Tourism Management 05081

The College of Business offers the following minor programs:

- Accounting
- Business Administration
- Decision Sciences
- Economics
- Finance
- Hospitality and Tourism Management
- Information Systems
- International Business
- Labor and Employment Studies
- Management
- Marketing

The College of Business offers the following certificate programs:

- Business Certificate in Ethics & Compliance
- Certificate in Commercial Real Estate
- Certificate in Hospitality and Tourism Management
- Certificate in Information Technology Auditing
- Certificate in International Business
- Certificate in the Study of Public Accountancy

The College of Business offers the following graduate degrees:

Master of Arts

Economics 22041

Executive Master of Business Administration 05011
Master of Business Administration 05011
Master of Science in Accountancy 05021
The various graduate programs offered by the College of Business are accredited by the AACSB (Association for the Advancement of Collegiate Schools of Business).

**Department Structure**
The College of Business is made up of ten departments:

- Accounting
- Decision Sciences
- Economics
- Finance
- Hospitality and Tourism Management
- Information Systems
- International Business
- Labor and Employment Studies
- Management
- Marketing

**College Vision**
We aspire to be one of the best public urban business schools by applying sustainability and ethical perspectives to our understanding of business practice, global leadership, innovation, the economy, and society.

**College Mission**
We are San Francisco’s public business school. We embrace the area’s rich diversity and provide access to higher education. Our mission is to prepare students for professional success through high-quality teaching, innovative and relevant courses, discipline-based and pedagogical scholarship, and engagement with the academic and business communities.

The College of Business offers undergraduate, graduate, and executive business education, providing a broad and exciting array of courses of study and concentrations.

The student body is diverse, reflecting not only the San Francisco area, but also the large number of international students who choose San Francisco State University’s College of Business. In 2004, the College awarded more undergraduate business degrees to Asian Americans than any other institution in the United States. As feminist Gloria Steinem once said: “Go to San Francisco State. It’s the only campus that looks like the world.”

The College of Business at San Francisco State is among the less than 25% of business schools in the US and 15% of international schools that are fully accredited by AACSB International, The Association to Advance Collegiate Schools of Business.

The College of Business is constantly evolving. It continues to invest in the quality of faculty, students and the visibility of the College brand. Cultivating strong industry connections and advancing its fundraising efforts keep the College active and relevant in the business community and allow the College to provide exclusive opportunities for our students.

There are five strategic initiatives in the College of Business:

**Invest in Faculty and Academic Excellence**
At the College of Business, we pride ourselves on our world-renowned faculty and invest in their scholarly work. We uphold academic excellence and commend each of our faculty members for their contributions to the college and the impact they have on our students.

**Invest in Our Students Through Scholarships and Careers**
The College of Business guides students as they grow as leaders and contributors in the Bay Area and beyond. We acknowledge students’ academic and personal achievements and encourage continuous progress toward learning and career opportunities.

**Invest and Leverage Our Brand to Sustain Competitive Advantage**
The College of Business consistently invests in its brand to sustain a competitive advantage in the dynamic market. Brand visibility is key to growing new revenue from graduate enrollment, corporate partnerships, and executive education.

**Build Corporate Connections**
The College of Business reaches out to the corporate community to build a cohesive connection between industry and academia. The College of Business Enterprises (COBE) is the platform that allows our partners to connect with the college, faculty and our students.

**Friend-Raising and Fundraising**
The College of Business cultivates relationships with alumni and friends and values their enthusiasm to connect students to industry. These unique partnerships allow the college to make philanthropic investments that drive fundraising initiatives.

The College of Business’s overarching direction is guided by the five core values of San Francisco State University:

- courage,
- life of mind,
- equity,
- community and
- resilience.

At the operational level, the core values guiding the College of Business decision-making and behavior are:

**Facilitating Access**
Building on a tradition of offering broad access to diverse students—both traditional students and working adults—the College of Business will offer classes morning, afternoon and evening, on weekdays and weekends, on campus and off at affordable prices.

**Intellectual Capital**
The College of Business strives to reinforce basic skills and substantive business knowledge that can be adapted and applied throughout our students’ careers. We do so in a setting that promotes inquiry, respects differences, tolerates dissension and encourages lifelong learning.

**Engaged Learning Partnership**
As a learning community involving faculty, staff, students, administrators, and business professionals, the College of Business will work as a team in pursuit of learning, shared discovery, and intellectual inquiry, establishing active external partnerships with local and global communities.

**Knowledge Creation & Dissemination**
The College of Business faculty is committed to the study, understanding, advancement, and diffusion of knowledge through research that improves global business practice. While the California State University focuses on
applied research, the College of Business encourages all forms of quality research.

**Ethical and Professional Management**
The College of Business strives to manage our enterprise in an exemplary manner, respecting the principles of shared governance, effective leadership, and faculty/staff service.

**San Francisco Mindset**
The College of Business celebrates the fact that our school reflects our community and the greater San Francisco community is among the most cosmopolitan, diverse, and tolerant in the world. Such a munificent environment offers opportunities for the College of Business to focus on emerging technologies, global markets, and service industries.

**Culture of Collaboration**
In accordance with San Francisco State University values, the College of Business embraces innovation as it relates to delivering learning opportunities, providing core service and support, and engaging the community through collaborative interactions.

**Commitment to Excellence**
As part of the continuous improvement process, we build in processes to obtain feedback from all constituencies including faculty, staff, students, alumni, employers, other universities, and business professionals.
**Graduate College of Education**

**College Administrative Offices**

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interim Dean of the College</td>
<td>Nancy B Robinson</td>
<td>BH 501</td>
<td>338-2687</td>
</tr>
</tbody>
</table>

**College Directory**

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Chair/Director</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
<td>Doris Flowers</td>
<td>BH 239</td>
<td>338-2614</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Josephine Arce</td>
<td>BH 181</td>
<td>338-1584</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>Maika Watanabe</td>
<td>BH 45</td>
<td>338-1621</td>
</tr>
<tr>
<td>Special Education &amp; Communicative Disorders</td>
<td>Yvonne Bui</td>
<td>BH 156</td>
<td>338-1161</td>
</tr>
</tbody>
</table>

The Graduate College of Education offers a Minor in Education, a Minor in Special Education, and an undergraduate degree in the following:

**Bachelor of Science**

- Communicative Disorders 12201

The Graduate College of Education offers the following graduate degrees:

**Master of Arts**

- Education
  - Concentrations in:
    - Adult Education 08071
    - Early Childhood Education 08231
    - Educational Administration 08271
    - Elementary Education 08021
    - Equity and Social Justice in Education 08011
    - Instructional Technologies 08992
    - Language and Literacy Education 08301
    - Mathematics Education 08997
    - Secondary Education 08031
    - Special Interest Area (Interdepartmental) 08993
    - Special Education 08081

**Doctor of Education in Educational Leadership 08272**

**Doctor of Philosophy in Education: Concentration in Special Education 08081**

**Graduate Certificate Programs**

- Augmentative and Alternative Communication (Department of Special Education & Communicative Disorders)
- Autism Spectrum Disorders (Department of Special Education & Communicative Disorders)
- Early Childhood Special Education (Department of Special Education & Communicative Disorders)
- E-learning Development (Department of Equity, Leadership Studies, and Instructional Technologies)
- Reading (Department of Elementary Education)
- Reading and Literacy Leadership Specialist Credential (Department of Elementary Education)
- Training Systems Development (Department of Equity, Leadership Studies, and Instructional Technologies)

The Graduate College of Education is organized into four departments:

- Elementary Education
- Equity, Leadership Studies, and Instructional Technologies
- Secondary Education
- Special Education & Communicative Disorders

**GCOE Mission**

The Graduate College of Education prepares reflective, transformative educators, clinicians, leaders and scholars who advance the professions within education. Our graduates deliver education programs across the life span, demonstrating excellence in the art and science of teaching and learning, research on critical issues in education and communicative disorders, integration of new technologies and commitment to equity and social justice. Professional preparation programs are designed to meet global challenges, through authentic learning experiences in academic and clinical environments that are guided by our commitment to inclusiveness, integrity, community, social action and evidence-based practice.

**GCOE Vision**

Our vision is to be the premier institution of higher education to prepare professionals who transform lives in schools and communities through our commitment to access, equity, quality and innovation in teaching, scholarship and service.

**Core Values**

He core values of the GCOE are reflected in the SF State Strategic Plan: Courage, Life of the Mind, Equity, Community, and Resilience®. These values resonate with the GCOE and our commitment to social justice. We embrace these five values and have adapted them to align with the mission of the GCOE.

**Courage**: Courage enables us to develop a sense of agency that engages students, staff, and faculty in speaking their voices and having their voices heard in forums that honor the contributions of all.
Life of the Mind: Our programs are informed by research, our research is informed by evidence-based practice, and our practice is grounded in our professional commitments as educators, activists, practitioners and clinicians. Collaboration with communities is an integral component of our scholarship, with a focus on uncovering funds of knowledge and community cultural wealth.

Equity: Our focus on equity addresses a broad range of persistent, structural social justice issues, including race, class, gender, sexual orientation, disability, and other forms of marginalization in 21st century, globalized California.

Community: Our programs promote a climate of inspiration and inclusivity, and are characterized by strong linkages to local and global communities at all levels, birth through adult, in formal and non-formal educational contexts.

Resilience: Our work in collaboration with diverse school, community and clinical settings implies that resilience takes many forms, ranging from promoting transformative resistance, to fostering global sustainability, to creating an environment that is marked by a generosity of spirit, to supporting a thriving environment of mutually supportive human relations.

GCOE Scholarships

Numerous scholarships are offered by the Graduate College of Education are open to all students in the graduate college. Visit SF State Academic Works (https://sfsu.academicworks.com) to search for all scholarship opportunities and also apply online.

For Graduate Fellowship Opportunities, please visit http://fellowships.sfsu.edu.

Note: Educational leadership doctoral students are eligible to apply for the following four scholarships: Crumpton/Baxter/Bonham, Karl Richard Lane, Chris Larsen, and Hilda Taba.

Doctoral Programs

The Ed.D. in Educational Leadership is an intensive multidisciplinary three-year program implemented at SF State to accommodate the needs of working professionals and maximize the use of multidisciplinary faculty expertise in the San Francisco Metropolitan Bay Area. The aim of the program is to prepare outstanding educational leaders. The Ed.D. in Educational Leadership immerses its students in an exploration of critical challenges that pre – K-12 school district and community college educational leaders must grapple with while providing enriching educational opportunities available only in dynamic urban and transitioning communities.

The Special Education Joint Doctoral program, which offers the Ph.D., is designed to prepare candidates for leadership positions in special education. By combining the complementary resources of San Francisco State University and the University of California, Berkeley, these programs are designed to provide a greater breadth and depth of preparation in the field of special education. Students completing this degree program are prepared to serve in a variety of roles, including administration, research, and college and university teaching.

Master of Science Degree in Communicative Disorders

- Communicative Disorders, to prepare for professional practice, research and leadership as a Speech-Language Pathologist in school, community, clinical and medical settings. Completion of the program prepares candidates for certification by the American Speech-Language and Hearing Association, licensing by the State of California and the Speech Language Pathologist Services Credential by the California Commission on Teacher Credentialing.

Master’s of Arts Degree in Special Education

- Special Education, for competence in research and leadership skills in working with people with disabilities in program five emphasis areas, including early childhood special education, mild/moderate disabilities, moderate/severe disabilities, orientation and mobility, and visual impairments. The degree program prepares individuals to work in schools and other educational settings, in public and private agencies serving people with disabilities, and in other related human services fields.

Master’s of Arts Degree in Education: Concentrations

The Master’s of Arts Degree in Education include the following concentrations:

- Early Childhood Education, for greater competence in teaching nursery school, kindergarten, and primary grades.
- Elementary Education, for greater competence in teaching grades kindergarten through nine.
- Secondary Education, for greater competence in teaching in middle or high school.
- Mathematics Education, for greater competence in teaching mathematics and to promote and support teacher leaders to be knowledgeable both in mathematics content and in the use of pedagogical practices that enable student to learn mathematics.
- Language and Literacy, for greater competence in teaching literacy and to extend academic and professional expertise in the field of language and literacy development.
- Education: Special Interest, an interdepartmental program for developing competence in designated specialized aspects of teaching such as research, evaluation, human relations in education, adult education, the foundations of education, and human development and learning.
- Adult Education, to prepare for working in leadership roles with adults in a wide variety of educational settings.
- Educational Administration, for positions as consultant, curriculum coordinator, supervisor of designated subjects, supervisor of designated services, and school principal or administrator.
- Equity and Social Justice in Education, addresses issues of language, culture, ethnic, and gender diversity in education, enabling graduates to work on related issues in public education, non-profit groups, public service, and private organizations.
- Instructional Technologies, for personnel in schools, instructional materials centers, and industry.

Course Work
The most common class is the lecture-discussion; there also are many seminars, workshops, clinical courses with individual attention, supervised internship and field experiences, and individually planned field studies and theses. For those students in teacher education, courses emphasize the relationship between school practice and findings from educational research and the psychological and social foundations of education. For those students with human service and/or professional development goals, courses emphasize the interrelationship between the concepts and research underlying the discipline or field of endeavor and the acquisition of professional roles through directed practice experiences. Requirements of most programs, except for internships, can be met through late afternoon, evening, and summer courses.

Advising

Interested students should inquire at the Student Resource Center in Burk Hall 311 for a referral to the appropriate program advisor. Candidates seeking teaching credentials may go directly to the Credential and Graduate Services Center, BH 244 for credential application and processing information. The student should confer with the advisor frequently to develop and maintain a working relationship based on direct acquaintance. These conferences, along with formal records, help to provide a basis for planning and assessing student programs.
College of Ethnic Studies

College Administrative Offices

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean</td>
<td>Kenneth P. Monteiro</td>
<td>EP 121</td>
<td>338-1694</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Amy Sueyoshi</td>
<td>EP 121</td>
<td>338-1693</td>
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College Directory

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<thead>
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<tbody>
<tr>
<td>Africana Studies</td>
<td>Serie McDougal</td>
<td>EP 103</td>
<td>338-2352</td>
</tr>
<tr>
<td>American Indian</td>
<td>Robert Keith</td>
<td>EP 103</td>
<td>405-3928</td>
</tr>
<tr>
<td>Asian American</td>
<td>Grace J. Yoo</td>
<td>EP 103</td>
<td>338-2698</td>
</tr>
<tr>
<td>Latina/Latino Studies</td>
<td>G. Alejandro Murguia</td>
<td>EP 103</td>
<td>338-6160</td>
</tr>
<tr>
<td>Race and Resistance</td>
<td>Jason Ferreira</td>
<td>EP 210</td>
<td>338-1645</td>
</tr>
<tr>
<td>Ethnic Studies</td>
<td>Katynka Martinez</td>
<td>EP 416</td>
<td>338-6804</td>
</tr>
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</table>

The College of Ethnic Studies offers undergraduate degrees in the following disciplines:

Bachelor of Arts

- Africana Studies 22111
- American Indian Studies 22121
- Asian American Studies 22996
- Latina/Latino Studies 22131

The college also offers the following minors which may be taken in conjunction with any major:

- Africana Studies
- American Indian Studies
- Arab and Muslim Ethnicities and Diasporas Studies
- Asian American Studies
- Latina/Latino Studies
- Race and Resistance Studies

The College of Ethnic Studies offers the following graduate degrees:

Master of Arts

- Asian American Studies 22996
- Ethnic Studies 22991

Post-Baccalaureate Certificate

- Ethnic Studies

In fall of 1969 dedicated and concerned students, faculty, and community members established the College of Ethnic Studies. Faculty and students representing four major racial groups—African American, American Indian, Asian Pacific Islander, and Latino—laid the conceptual institutional foundations for a unique educational program that redefined their particular cultures from their perspectives for the first time. The four departments of American Indian Studies, Asian American Studies, Black Studies, and Raza Studies comprised the first and still the only College of Ethnic Studies in the nation. Since its founding, the College has expanded to include an additional department focusing on comparative ethnic studies called Race and Resistance Studies and a program in Arab and Muslim Ethnicities and Diasporas. Black Studies and Raza Studies have also changed their departmental names to Africana Studies and Latina/Latino Studies.

San Francisco State University’s reaccreditation report praised the College of Ethnic Studies as a national leader in the development of scholarship on race and ethnicity. It also recognized the important role the College plays in creating a campus that embraces racial difference and diversity.

The programs within the College of Ethnic Studies provide a unique educational experience by presenting a curriculum that places a strong emphasis on the historical and philosophical impact of African American, American Indian, Asian Pacific Islander, and Latina/Latino peoples and their many varied contributions to the history and culture of the United States.

The American Indian Studies program offers course work leading to a major and a minor designed to give students knowledge and understanding of the histories, cultures, and perspectives of traditional and contemporary Native American Indians. The Asian American Studies Department offers a major and minor for students who wish to pursue a comprehensive program of study on the Asian American experience. Requirements in Asian American history, literature and the arts, gender, and family and communities will provide students with a broad range of knowledge of the diverse Asian American population. Africana Studies majors and minors engage in an integrated liberal arts course of study on the history and development of the African American and global community. By offering a balanced and multidisciplinary curriculum, students will develop self-knowledge and critical skills that will assist them to serve as agents of social change in their communities. Latina/Latino Studies majors and minors are exposed to classes that provide cultural, historical, and social knowledge relevant to the Latino experience. They provide students with a better understanding of Latino economic, cultural, and social heritage and prepares students for careers and professions requiring expertise on different aspects of the Latino experience. Race and Resistance Studies (RRS) provides students with a critical and comparative approach to the study of race, examining both how societal institutions—from education and health care to penal systems and popular culture— Oppress diverse racialized communities and how these same communities engage in individual and collective forms of resistance in the pursuit of social justice. RRS produces cohorts of highly motivated, critical thinkers and socially engaged students—able to speak with informed insight to the complexities of interracial tension and possibilities for progressive cross-racial solidarities—and who will ultimately go on to occupy important positions in civic society, committing to a lifetime of learning from and organizing alongside disenfranchised communities of color in the US and abroad.

In addition to the five degree granting departments of Africana Studies, American Indian Studies, Asian American Studies, Latina/Latino Studies, and Race and Resistance Studies, the College has developed an extensive college-wide curriculum designed to meet the needs of students who wish to complete their General Education. The courses also provide crucial content for teachers who will be teaching Ethnic
Studies subjects in elementary, secondary, community, and college level institutions, as well as those who wish to gain a comparative understanding of people of color and their communities in business, social welfare, law, medicine, and the arts.

The Master of Arts in Ethnic Studies established in 1988, increases students’ knowledge and understanding of communities of color through scholarly training in the analysis of historical and contemporary social issues. The program provides students with a sound capacity to plan and evaluate policies aimed at the resolution of racial and economic inequality. The curriculum focuses on African American, American Indian, Asian American, and Latina/Latino people, cultures, and societies. Theoretical and conceptual tools of numerous disciplines are critically utilized to assess the "Third World" experience. The program applies this approach to instruction, research, and community involvement in the surrounding San Francisco Bay Area communities of color and with students throughout the program. The program prepares individuals for advanced graduate work leading to the doctorate, for professional roles in teaching, research, and administration within both the public and private sectors. It is the only terminal master’s degree program in ethnic studies in the nation.

The Master of Arts in Asian American Studies established in 1999, provides students with an advanced, critical knowledge of the diverse Asian American population through disciplinary and interdisciplinary inquiries and analyses of Asian American history, literature and the arts, gender, family studies, as well as community studies.

The Certificate in Ethnic Studies, established in 2016, provides post-baccalaureate training on inequality, activism, and self-determination relevant to communities of color and indigenous peoples to empower professionals in social services, urban planning, public health, education, law enforcement, and related fields to better serve racially marginalized populations.
College of Extended Learning

College Administrative Offices

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean</td>
<td>Guido Krickx</td>
<td>817-4260</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Vacant</td>
<td></td>
</tr>
<tr>
<td>Chief Financial Officer</td>
<td>Edwin Billiot</td>
<td>817-4269</td>
</tr>
<tr>
<td>Executive Assistant</td>
<td>Julie Briden</td>
<td>817-4260</td>
</tr>
<tr>
<td>Director of Programs</td>
<td>Donn Callaway</td>
<td>817-4488</td>
</tr>
<tr>
<td>Director of Recruitment and Partner Relations</td>
<td>Alexander Chang</td>
<td>817-4232</td>
</tr>
<tr>
<td>Director of International Language and Professional Programs</td>
<td>Saroj Quinn</td>
<td>817-4325</td>
</tr>
<tr>
<td>Director of Business Development and Corporate Relations</td>
<td>Susan Propst</td>
<td>817-4249</td>
</tr>
<tr>
<td>Director of Enrollment Services</td>
<td>Atanas Maximov</td>
<td>817-4272</td>
</tr>
<tr>
<td>Director of Marketing</td>
<td>Sameer Bhasin</td>
<td>817-4246</td>
</tr>
</tbody>
</table>

College of Extended Learning Administrative Offices SF State Downtown Campus 835 Market Street, 6th Floor San Francisco, CA 94103 (415) 405–7700

Program Directory

<table>
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<tr>
<th>Certificate Programs</th>
<th>Contact</th>
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<tbody>
<tr>
<td>Autodesk Authorized Training Center</td>
<td>Cathy Flight</td>
<td>817-4226</td>
</tr>
<tr>
<td>Clinical Lab Sciences</td>
<td>Janet Alford</td>
<td>817-4264</td>
</tr>
<tr>
<td>Clinical Medical Assistant</td>
<td>Jenifer Graff</td>
<td>817-4253</td>
</tr>
<tr>
<td>Clinical Trials Design &amp; Management</td>
<td>Cathy Flight</td>
<td>817-4226</td>
</tr>
<tr>
<td>Dietetics</td>
<td>Janet Alford</td>
<td>817-4264</td>
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<tr>
<td>Digital Animation</td>
<td>Robert Collins</td>
<td>817-4230</td>
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<tr>
<td>Digital Video Intensive</td>
<td>Robert Collins</td>
<td>817-4230</td>
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<tr>
<td>E-Learning Design &amp; Development</td>
<td>Cathy Flight</td>
<td>817-4226</td>
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<td>English for Professional Purposes</td>
<td>Cathy Flight</td>
<td>817-4226</td>
</tr>
<tr>
<td>Event and Meeting Planning</td>
<td>Joy Thompson</td>
<td>817-4237</td>
</tr>
<tr>
<td>Family Nurse Practitioner</td>
<td>Janet Alford</td>
<td>817-4264</td>
</tr>
<tr>
<td>Film and Media Studies</td>
<td>Robert Martin</td>
<td>817-4270</td>
</tr>
<tr>
<td>Financial Planning</td>
<td>Aftap Boz</td>
<td>817-4227</td>
</tr>
<tr>
<td>Geographic Information Systems</td>
<td>Joy O'Donnell</td>
<td>817-4229</td>
</tr>
<tr>
<td>Holistic Health</td>
<td>Janet Alford</td>
<td>817-4264</td>
</tr>
<tr>
<td>Hospitality, Tourism, and Management</td>
<td>Joy O'Donnell</td>
<td>817-4229</td>
</tr>
<tr>
<td>Human Resource Management: Fundamental Issues</td>
<td>Cathy Flight</td>
<td>817-4226</td>
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<tr>
<td>International Business</td>
<td>Joy O'Donnell</td>
<td>817-4229</td>
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</tbody>
</table>

Programs Directory

Marketing: Robert Collins 817-4230
Multimedia Studies: Robert Collins 817-4230
Music/Recording Industry: Robert Collins 817-4230
Nonprofit Management: Robert Martin 817-4270
Paralegal Studies: Pat Medina 817-4222
Pharmacy Technician: Jenifer Graff 817-4253
Pre-Health Professions: Janet Alford 817-4264
Pre-Nursing: Janet Alford 817-4264
Project Management: Cathy Flight 817-4226
Screenwriting: Robert Martin 817-4270
Spanish/English Interpretation: Eric Bishop 817-4223

Professional Training and Other Programs

<table>
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<tr>
<th>Programs</th>
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<tr>
<td>Accelerated Entry Level Master of Science in Nursing</td>
<td>Janet Alford</td>
<td>817-4264</td>
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<tr>
<td>American Language Institute</td>
<td>Kathy Sherak</td>
<td>338-7382</td>
</tr>
<tr>
<td>Bachelor of Science in Nursing: Sequoia</td>
<td>Janet Alford</td>
<td>817-4264</td>
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<tr>
<td>Elder College</td>
<td>Robert Martin</td>
<td>817-4270</td>
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<tr>
<td>Executive MBA</td>
<td>Sanjit Sengupta</td>
<td>817-4366</td>
</tr>
<tr>
<td>Open University</td>
<td>Donn Callaway</td>
<td>817-4488</td>
</tr>
<tr>
<td>Professional Communication Skills</td>
<td>Cathy Flight</td>
<td>817-4226</td>
</tr>
<tr>
<td>Professional Development for Teachers</td>
<td>Jenifer Graff</td>
<td>817-4253</td>
</tr>
<tr>
<td>Pupil Personnel Services Credential – School Psychology</td>
<td>Joy O’Donnell</td>
<td>817-4229</td>
</tr>
<tr>
<td>Pupil Personnel Services Credential – Social Work</td>
<td>Joy O’Donnell</td>
<td>817-4229</td>
</tr>
</tbody>
</table>

Programs Directory

Extended Learning is the college of the university that is responsible for all program and course offerings not supported by state appropriations. These include continuing education courses, Winter Session, Open University, short-term study abroad programs, contract courses, professional training series, certificate programs, and off-campus degree programs. In contrast with degree programs, which require matriculation and a degree objective, most Extended Learning programs allow any adult and selected high school students to participate. The primary objective of Extended Learning is to augment the regular university offerings and to provide further educational opportunities for all who wish to gain new knowledge and skills, pursue a new career direction, or expand their existing skills in a particular industry.

Courses are taught by regular San Francisco State University faculty, visiting faculty, and practicing professionals. All are specialists in their fields. Classes are offered at the 19th Avenue and Holloway campus location, at the San Francisco State University Downtown Campus, 835 Market Street (Powell BART/Muni), at the Sierra Nevada Field Campus,
and the Romberg Tiburon Center for Environmental Studies as well as several off-campus locations.

**Continuing Education Programs**

Continuing education is the medium through which the resources, skills, and talents of San Francisco State University are extended into the larger San Francisco area community. The continuing education program is designed for those who wish to pursue university-level study for purposes of resuming an interrupted or uncompleted education, to augment professional or vocational abilities, or to enhance personal growth and fulfillment.

Continuing education offerings include regularly established university courses as well as non-credit seminars and conferences, special weekend programs and travel study programs. Workshops and courses designed to meet the needs of particular groups and agencies may be initiated at various times during the year. Any adult may enroll in a continuing education course provided he/she meets the prerequisites for the course; it is not necessary that he/she also be admitted to the university.

Continuing education is self-supporting. Registration fees make possible the classes and programs offered. Therefore, individual courses or programs may be canceled if enrollment is not sufficient. Courses are offered during the fall, winter, spring, and summer sessions.

**Winter Session**

Winter Session enrollment is open to everyone—continuing and prospective San Francisco State University students, people from the community and visitors. Scheduled during the last two weeks of December and the first three weeks of January, the one-, two-, and three-unit courses are primarily designed to meet the needs of students who wish to accelerate their academic progress. Winter Session courses earn residence credit and range from both lower- and upper-division credit courses to graduate level offerings. The maximum number of units a student may earn in Winter Session is four units.

**Open University**

Many of the courses offered to regularly enrolled San Francisco State University students are also available to continuing education students through Open University on a space available basis. Students enrolling through Open University earn residence credit which can be applied with limitations toward degrees. For baccalaureate degrees, SF State will accept up to 24 semester units of credit earned through Open University registration. For graduate degrees, SF State will generally accept, with advisor’s approval, up to six semester units of credit earned through Open University.

Matriculated (regular) students, including foreign students with F-1 visas, may not enroll through Open University. As soon as a student is admitted to and enrolled in the university, he/she is considered a matriculated student for the current semester and for the next two semesters following the current semester. Even if currently admitted students do not take classes through the regular university, they may not take Open University courses because they are still eligible to register as matriculated students.

Newly admitted students who do not pay fees and do not enroll in regular university courses (that is, they do not matriculate) may take Open University classes, but will lose their status as admitted students.

Matriculated students who register in Open University courses are disenrolled without refund of fees and do not receive any credit on their permanent records. There are no exceptions to this regulation.

Contact the Extended Learning Office for information at (415) 405-7700.

**Contract Credit (Contract Education)**

Extended Learning offers Bay Area employers and organizations the service of reviewing their planned or existing in-house training programs for university or professional credit.

If a course is approved by a university department, participants receive a permanent university record of either extension academic credit or professional Continuing Education Units (CEUs), depending on the nature of the training. If the training program satisfies university requirements for content and quality, contract education can provide a convenient mechanism for organizations to enhance the value of their training.

**Academic Programs**

A limited number of degree, credential, and certificate programs are offered through special sessions. To be considered officially matriculated at SF State, special sessions students must be admitted to a specific degree, credential, or certificate program offered by an academic department via the College of Extended Learning (CEL) and then enroll through CEL in the courses for that specific program. Special sessions degree, credential, and certificate students have matriculated status.

An updated list of current and anticipated special sessions programs, grouped by category (degree, credential, and certificate) is available at www.cel.sfsu.edu/ (http://www.cel.sfsu.edu).

The list currently includes the following:

**Undergraduate Degree Programs**
- Bachelor of Science in Nursing (Off-Campus)

**Graduate Degree Programs**
- Master of Business Administration (E.M.B.A.): Executive
- Master of Science in Nursing: Entry Level Accelerated

**Credential Programs**
- Post-Masters Pupil Personnel Services Credential – Social Work
- Psychology Internship Pupil Personnel Services Credential

**Certificate Programs (Academic)**
- Clinical Laboratory Sciences Certificate
- Digital Animation Certificate
- Family Nurse Practitioner Certificate
- Film and Media Studies Certificate
- Holistic Health Certificate
- Hospitality, Tourism and Management Certificate
- International Business Certificate
- Music/Recording Industry Certificate
- Paralegal Studies Certificate
- Pre-Health Professions Certificate
- Pre-Nursing Certificate
- Screenwriting Certificate
- Spanish/English Interpretation
Certificate Programs
Certificate programs are designed for people who want formal recognition for completing a structured and rigorous course of study in a specific field, but who may not be interested in pursuing a university degree program.

Certificates are awarded when participants complete the required number of units or courses for the program, and other requirements, as stipulated. Students may enroll in up to 9 units before applying to a certificate program.

The certificate programs can be found in the Academic Programs section of this Bulletin (see Summary of Certificate Programs (http://bulletin.sfsu.edu/about-sfsu/degrees-offered/certificates/certificate-information) for links to specific programs).

Writing Skills
The certificate programs’ course content requires good writing skills. Certificate students are asked to demonstrate their writing ability soon after admission to the certificate program to satisfy the university literacy requirement. Those who do not have the necessary writing skills are referred to either ENG 214 Second Year Written Composition: English or ENG 414 Elements of Writing, which is regularly offered through Open University.

Admission to Certificate Programs
To be admitted to some academic certificate programs, students should have completed 56 units of academic credit or have sufficient experience to demonstrate they can perform upper division work. Students who do not have 56 units may be accepted on probation and are encouraged to apply. Please visit the website at www.cel.sfsu.edu (http://www.cel.sfsu.edu) for more information.
College of Health and Social Sciences

College Administrative Offices

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean</td>
<td>Alvin N. Alvarez</td>
<td>HSS 204</td>
<td>338-3326</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>John P. Elia</td>
<td>HSS 239</td>
<td>405-3533</td>
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College Directory

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Chair/Director</th>
<th>Office</th>
<th>Telephone</th>
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</thead>
<tbody>
<tr>
<td>Child and Adolescent Development</td>
<td>Rene Dahl</td>
<td>SCI 394</td>
<td>405-3564</td>
</tr>
<tr>
<td>Marian Wright Edelman Institute</td>
<td>David Anderson</td>
<td>HSS 257</td>
<td>338-6976</td>
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<tr>
<td>Clinical Laboratory Science</td>
<td>Susan Kazarian</td>
<td>SCI 202</td>
<td>338-2332</td>
</tr>
<tr>
<td>Family Interior Nutrition &amp; Apparel</td>
<td>Connie Ulasewicz</td>
<td>BH 329</td>
<td>338-1219</td>
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<tr>
<td>Counseling</td>
<td>Graciela Orozco</td>
<td>BH 524</td>
<td>338-2005</td>
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<tr>
<td>Health Education</td>
<td>Mary Beth Love</td>
<td>HSS 326</td>
<td>338-1413</td>
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<tr>
<td>Kinesiology</td>
<td>Marialice Kern</td>
<td>GYM 101</td>
<td>338-2244</td>
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<tr>
<td>Nursing</td>
<td>Mary Ann van Dam</td>
<td>BH 371</td>
<td>338-1802</td>
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<tr>
<td>Physical Therapy</td>
<td>Linda Wanek</td>
<td>HHS 124</td>
<td>338-2001</td>
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<td>Graduate Program</td>
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<tr>
<td>Recreation, Parks, and Tourism</td>
<td>Erik Rosegard</td>
<td>HSS 307</td>
<td>338-7529</td>
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<tr>
<td>Sociology and Sexuality Studies</td>
<td>Andreana Clay</td>
<td>HSS 370</td>
<td>405-3570</td>
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<tr>
<td>Social Work</td>
<td>Susanna Jones</td>
<td>HSS 227</td>
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School of Public Affairs and Civic Engagement

Director: Elizabeth Brown

<table>
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<tr>
<th>Program</th>
<th>Coordinator</th>
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<tbody>
<tr>
<td>Criminal Justice Studies</td>
<td>Elizabeth Brown</td>
<td>HSS 210</td>
<td>338-1149</td>
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<tr>
<td>Environmental Studies</td>
<td>Glenn Fieldman</td>
<td>HSS 210</td>
<td>338-1149</td>
</tr>
<tr>
<td>Gerontology</td>
<td>Darlene Yee</td>
<td>HSS 242</td>
<td>338-1684</td>
</tr>
<tr>
<td>Public Administration</td>
<td>Jennifer Shea</td>
<td>DTC 679</td>
<td>817-4458</td>
</tr>
<tr>
<td>Urban Studies and Planning</td>
<td>Jasper Rubin</td>
<td>HSS 210</td>
<td>338-1178</td>
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</table>

The College of Health and Social Sciences was established in 1995 as the College of Health and Human Services. It is organized into the following administrative areas: Child and Adolescent Development; Family Interior Nutrition & Apparel (FINA); Counseling; Health Education; Kinesiology; Nursing; Physical Therapy and Clinical Laboratory Science; Recreation, Parks, and Tourism; Social Work; Sociology and Sexuality Studies; and the School of Public Affairs and Civic Engagement, which houses Criminal Justice Studies; Environmental Studies; Gerontology; Public Administration; and Urban Studies and Planning.

Mission of the College of Health and Social Sciences

The College of Health and Social Sciences prepares students to help solve the most pressing and enduring issues confronting the well-being of individuals, families, communities and society. Students, faculty, and staff participate in a learning process that fosters excellence in their professions and supports them in the pursuit of equity and social justice. To advance this mission, the College is committed to innovative teaching, scholarship, and service that inspires leadership for positive social change.

Vision of Scholarship

Consistent with the social justice mission of the University, the hallmark of the College of Health and Social Sciences is its belief in the potential of scholarship to right a wrong - an act of intellectual advocacy to serve the public good, to wrestle with critical social problems, and to transform how individuals, communities, and institutions function - by disseminating the knowledge from basic, translational, and applied research and by advancing the practice of specific disciplines. This vision is best achieved when scholarship is supported as a faculty-initiated and faculty-driven process that emerges from their intellectual curiosity, expertise, social engagement and professional identity. To affirm the breadth of faculty interests and to honor the spectrum of academic disciplines, the College embraces an inclusive view of scholarship as discovery, integration, application, teaching, and engagement. Among the qualities valued in scholarship, the College supports work that is ethical, innovative, interdisciplinary, collaborative, theoretical and applied.

The College of Health and Social Sciences offers undergraduate degrees in the following disciplines:

Bachelor of Arts

- Child and Adolescent Development 08231
  - Concentrations in:
    - Early Childhood
    - School Age Child and Family
    - Youth Work and Out of School Time

- Criminal Justice Studies 21051
- Environmental Studies 49101
- Family and Consumer Sciences 13011
- Social Work 21041
- Sociology 22081
- Urban Studies and Planning 22141

Bachelor of Science

- Apparel Design and Merchandising 13031
- Dietetics 13061
- Environmental Studies 49101
  - Concentration in:
    - Natural Resource Management and Conservation

- Health Education 12011
- Interior Design 02031
Master of Science

- Kinesiology 08351
  - Concentrations in:
    - Exercise and Movement Sciences
    - Physical Education

- Nursing 12031
- Recreation, Parks, and Tourism Administration 21031

Undergraduate students interested in physical therapy may take a supporting major in one of the concentrations under the B.S. in Kinesiology or a major in biological sciences.

The College of Health and Social Sciences offers the following graduate degrees:

**Master of Arts**

- Family and Consumer Sciences 13011
- Gerontology 21043
- Human Sexuality Studies 49019

**Master of Public Administration 21021**

**Master of Public Health 12141**

**Master of Science**

- Clinical Mental Health Counseling 12221
- Counseling 08261
  - Counseling Concentration in
    - Marriage, Family, and Child Counseling 13051

- Kinesiology 08351
- Nursing 12031
  - Concentration in
    - Family Nurse Practitioner

- Recreation, Parks and Tourism 21031

**Master of Social Work 21041**

**Doctor of Physical Therapy 12121**

**Doctor of Physical Therapy Science 12121**

The Doctor of Physical Therapy (D.P.T.) program is offered jointly with the University of California, San Francisco (UCSF).

In addition to its undergraduate and graduate degree offerings, the college also offers a number of minor, certificate and credential programs.

**Undergraduate Minors**

- Athletic Coaching
- Counseling
- Criminal Justice Studies
- Health Education
- Holistic Health
- Human Sexuality Studies
- Lesbian, Gay, Bisexual, and Transgender Studies
- Recreation

- Sociology
- Urban Studies and Planning
- Women's Health Issues

**Undergraduate Certificates**

- Conflict Resolution (offered jointly by the Colleges of Business, Ethnic Studies, Health and Social Sciences, and Liberal & Creative Arts)
- Holistic Health (offered by Health Education through the College of Extended Learning)
- Youth and Human Services Non-profit Agency Administration (offered by Recreation, Parks, and Tourism)

**Graduate Certificates**

- Clinical Laboratory Science
- Dietetics (offered by Department of Family Interior Nutrition & Apparel (FINA))
- Family Nurse Practitioner
- Rehabilitation Counseling
- Fundamental Nonprofit Management Skills (offered by Public Administration)
- Nonprofit Leadership and Strategic Management (offered by Public Administration)
- Exercise Physiology (offered by Kinesiology)
- Movement Science (offered by Kinesiology)
- Physical Activity (offered by Kinesiology)

**Accreditation and Credentials**

- Pupil Personnel Services (offered by Counseling and Social Work)

Curricula in the college meet high academic standards. All of the programs subject to national accreditation are accredited: Public Administration by the Network of Schools of Public Policy, Affairs, and Administration; Clinical Laboratory Science by the National Accrediting Agency for Clinical Laboratory Sciences; Counseling by the Council for Accreditation of Counseling and Related Educational Programs; Dietetics by The Academy of Nutrition and Dietetics; Apparel Design and Merchandising, Dietetics, Interior Design and Family and Consumer Sciences by the American Association of Family and Consumer Sciences; Nursing by the Commission on Collegiate Nursing Education; Physical Therapy by the Commission on Accreditation in Physical Therapy Education; Public Health by the Council on Education for Public Health; Recreation, Parks and Tourism by the National Recreation and Park Association; Rehabilitation Counseling by the Council on Rehabilitation Education; and Social Work by the Council on Social Work Education. Nursing is also approved by the California Board of Registered Nursing. The Gerontology program meets the guidelines of the Association for Gerontology in Higher Education (AGHE).
College of Liberal & Creative Arts

College Administrative Offices

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Office</th>
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<tbody>
<tr>
<td>Dean</td>
<td>Andrew Harris</td>
<td>CA 251</td>
<td>338-1471</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Sophie Clavier</td>
<td>CA 251</td>
<td>338-1471</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Susan Shimanoff</td>
<td>CA 251</td>
<td>338-1471</td>
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College Directory

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<tbody>
<tr>
<td>Anthropology</td>
<td>Cynthia Wilczak</td>
<td>FA 525</td>
<td>338-2046</td>
</tr>
<tr>
<td>Art, School of Communication and Electronic Arts</td>
<td>Gail Dawson</td>
<td>FA 293</td>
<td>338-2176</td>
</tr>
<tr>
<td>Broadcast and Electronic Communication Arts</td>
<td>Vinay Shrivastava</td>
<td>CA 133</td>
<td>338-1787</td>
</tr>
<tr>
<td>Cinema, School of</td>
<td>Britta Sjogren</td>
<td>FA 245</td>
<td>338-1445</td>
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<tr>
<td>Classics</td>
<td>David Leitão</td>
<td>HUM 377</td>
<td>338-2068</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>Christina Sabee</td>
<td>HUM 289</td>
<td>338-1597</td>
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<tr>
<td>Comparative and World Literature</td>
<td>Dane Johnson</td>
<td>HUM 377</td>
<td>338-3072</td>
</tr>
<tr>
<td>Creative Writing</td>
<td>Nona Gasper</td>
<td>HUM 573</td>
<td>338-1891</td>
</tr>
<tr>
<td>Design, School of</td>
<td>Christina Sabee (Interim)</td>
<td>FA 121</td>
<td>338-2919</td>
</tr>
<tr>
<td>English Language and Literature</td>
<td>Sugiie Goen-Salter</td>
<td>HUM 484</td>
<td>338-7582</td>
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<tr>
<td>History</td>
<td>Trevor Getz</td>
<td>SCI 276</td>
<td>338-7537</td>
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<tr>
<td>Humanities and Liberal Studies, School of</td>
<td>Cristina Ruotolo</td>
<td>HUM 410</td>
<td>338-1090</td>
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<tr>
<td>International Relations</td>
<td>Mahmoud Monshipouri</td>
<td>HUM 282</td>
<td>338-1105</td>
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<tr>
<td>Jewish Studies</td>
<td>Fred Astren</td>
<td>HUM 415</td>
<td>338-6075</td>
</tr>
<tr>
<td>Journalism</td>
<td>Cristina Azocar</td>
<td>HUM 305</td>
<td>338-2663</td>
</tr>
<tr>
<td>Modern Languages and Literatures</td>
<td>Mohammad Salama</td>
<td>HUM 475</td>
<td>338-7413</td>
</tr>
<tr>
<td>Music, School of</td>
<td>Cyrus Ginwala</td>
<td>CA 140</td>
<td>338-1431</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Anita Silvers</td>
<td>HUM 388</td>
<td>338-1596</td>
</tr>
<tr>
<td>Political Science</td>
<td>Nicole Watts</td>
<td>HUM 304</td>
<td>338-6212</td>
</tr>
<tr>
<td>Theatre Arts and Dance, School of</td>
<td>Todd Roehman</td>
<td>CA 103</td>
<td>338-1431</td>
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<tr>
<td>Women and Gender Studies</td>
<td>Julietta Hua</td>
<td>HUM 315</td>
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</table>

Center for Modern Greek Studies            David Leitão (Interim) HUM 377 | 338-2068 |
Dilena Takeyama Center for the Study of Japan and Japanese Culture | Christopher Weinberger    | HUM 455 | 338-7403 |
Documentary Film Institute                  Soumyaa Behrens            | CA 001 | 405-3753 |
English Tutoring Center                     James Boyd                 | HUM 290 | 338-1821 |
Global Museum                              Edward M. Luby             | FA 417  | 338-3163 |
Media and Community                        Jon Funabiki               | CA 10   | 338-3162 |
Morrison Chamber                           Richard Festingger         | CA 251  | 338-1471 |
Music Center                               Gwen Sanderson             | DTC     | 817-4243 |
Osher Lifelong Learning Institute at SF State | Catherine J. Kudlick     | HUM 135 | 405-3528 |
Institute on Disability                    |                         |         |           |
Poetry Center and American Poetry Archives | Steve Dickison            | HUM 511 | 338-3401 |
Queer Cinema Institute                     | Johnny Symons            | FA 511  | 405-2841 |
Veteran Documentary Corps                   | Daniel L. Bernardi       |         |           |

College of Liberal & Creative Arts

The College of Liberal & Creative Arts offers undergraduate degrees in the following disciplines:

Bachelor of Arts

- American Studies 03131
- Anthropology 22021
- Art 10021
  - Concentrations in:
    - Art Education
    - Art History
    - Art History and Studio Art
    - Studio Art
- Broadcast and Electronic Communication Arts 06051
- Chinese 11071
  - Concentrations in:
    - Chinese Language
    - Chinese Literature and Linguistics
    - Flagship Chinese Language
- Cinema 10101
- Classics 15041
- Communication Studies 06011
- Comparative Literature 15031
- Dance 10081
- Drama 10071
- English 15011
  - Concentrations in:
    - Creative Writing 15071
    - English Education 15011
    - Individual Major 15011
• Literature 15021
• Linguistics 15051

• French 11021
• German 11031
• History 22051
  • Concentration in Honors Program
• Humanities 15991
• International Relations 22101
• Italian 11041
• Japanese 11081
• Journalism 06021
  • Concentrations in:
    • Photojournalism
    • Print and Online Journalism
• Liberal Studies 49012
• Modern Jewish Studies 15102
• Music 10051
• Philosophy 15091
• Philosophy and Religion 15992
• Political Science 22071
• Spanish 11051
• Technical and Professional Writing 15997
• Women and Gender Studies 22990

Bachelor of Music 10041
Bachelor of Science
• Industrial Design 08391
  • Concentration in:
    • Product Design and Development
• Visual Communication Design 06012

Undergraduate Certificates
• Conflict Resolution
• Technical and Professional Writing

The College of Liberal & Creative Arts offers the following graduate degrees:

Master of Arts
• Anthropology 22021
• Art 10021
• Broadcast and Electronic Communication Arts 06051
• Chinese 11071
• Cinema Studies 10101
• Classics 15041
• Communication Studies 06011
• Comparative Literature 15031
• Design 10023
• English
  • Concentrations in:
    • Composition 15013
    • Creative Writing 15071
• Linguistics 15051
• Literature 15021
• Teaching English to Speakers of Other Languages 15081

• French 11021
• German 11031
• History 22051
• Humanities 15991
• International Relations 22101
• Italian 11041
• Japanese 11081
• Museum Studies 49036
• Music 10051
• Philosophy 15091
• Political Science 22071
• Spanish 11051
• Theatre Arts 10071
• Women and Gender Studies 22990

Master of Fine Arts
• Art 10022
• Cinema 10102
• Creative Writing 15071
• Theatre Arts
  • Concentration in Design/Technical Production 10072

Master of Music 10041
Graduate Certificates
• Immigrant Literacies (English Department)
• Jewish Community Studies (Jewish Studies Department)
• Teaching of Composition (English Department)
• Teaching Post-secondary Reading (English Department)

Mission and Goals
The liberal and creative arts explore the identities, ethics, aspirations, arguments and imaginations of individuals and societies through art, myth, literature, language, philosophy, religion, public and private discourse, cultural artifacts and the symbolic systems by which ideas and feelings are communicated.

Disciplines in the liberal and creative arts address fundamental questions of existence, value, aesthetics and expression. What is an ethical human being? How can we balance individual freedom and civic responsibility? How do different cultures define beauty, morality, truth and other concepts? How do human beings use language and other symbolic forms to communicate and celebrate thoughts, emotions, endeavors?

The liberal and creative arts are dedicated to exploring multiple answers to these questions, to engaging the imagination and creativity, to increasing civic and global responsibility, to cultivating moral action, and to equipping people with the artistic and communication skills needed to express the best of what it means to be human.

Today’s life is complex, constantly challenging. The times need women and men who can think, reason and communicate clearly, who
understand moral and ethical distinctions; and who have a sense of both the continuity and the changing values of the human community.

Programs
The College of Liberal & Creative Arts consists of the departments or schools of Anthropology, Art, Broadcast and Electronic Arts, Cinema, Classics, Communication Studies, Comparative and World Literature, Creative Writing, Design, English, Humanities and Liberal Studies, Jewish Studies, Journalism, Modern Languages and Literatures, Music, Philosophy, Theatre and Dance, and Women and Gender Studies; and programs in African Studies, American Studies, California Studies, Conflict Resolution, Critical Social Thought, Ethical Issues in Science and Technology, European Studies, Global Peace Studies, Latin American Studies, Middle East and Islamic Studies, Museum Studies, Pacific Asian Studies, Persian Studies, Religious Studies, South Asian Studies, Technical and Professional Writing, and World Music and Dance.

Students in the college work closely with a world-class faculty, comprised of working professionals and acclaimed artists and scholars who provide students with access to breaking trends and new opportunities and who frequently share their expertise with the news media on society’s most important issues.

As students examine this Bulletin, they will discover that a number of courses not only relate to one another but also cut across disciplinary and departmental lines.

Arts Programs
The College of Liberal & Creative Arts has one of the largest and most comprehensive academic programs devoted to the creative arts in Northern California. Comprised of disciplines in the literary, media, performing and visual arts, the College provides unique opportunities for specialized focus, collaboration, interdisciplinary learning and multidisciplinary pursuits.

Academic programs encompass creative practice, theoretical and critical studies, fine arts, applied arts and arts education. The college supports programs that stress both original and interpretive forms of the arts, as well as those emphasizing traditional and innovative pursuits. High standards of professional accomplishment are stressed while maintaining a commitment to liberal arts curricula. A major goal is the education of students who will become significant creators, scholars, educators and facilitators in creative arts who are capable of making major contributions in our urban, national and global environment.

The College seeks to continue its long history of relationships with varied audiences, communities, and professionals throughout San Francisco. A substantial portion of the College’s programs highlights the unique roles and expressions of the arts in a multicultural and diverse society. The College strives to maintain a significant contribution to the unique ways in which the creative arts can serve as primary agents in a quality liberal arts education.

For information on productions, exhibits, and symposia, refer to the Performing, Visual, and Media Arts (p. 184) section of this Bulletin.

Research and Special Learning Facilities
The College houses a number of special centers, institutes, facilities, and programs. Collections include: Marvin L. Silverman Jewish Studies Reading Room, Global Museum, American Poetry Archives and Nathan Shapira Design Archive.

Centers and institutes include: the Center for Iranian Diaspora, Center for the Integration and Improvement of Journalism, Center for Modern Greek Studies, Design Gallery, Dilena Takeyama Center for the Study of Japan and Japanese Studies, Documentary Film Institute, Fine Arts Gallery, Global Museum, English Tutoring Center, Morrison Chamber Music Center, Osher Lifelong Learning Institute, Paul K. Longmore Institute on Disability, The Poetry Center, Queer Cinema Institute, and the Veteran Documentary Corps.

Pre-law Program
No specific major is required for admission to a school of law. A usual requirement for admission is that the student must have been granted a bachelor’s degree from an accredited college or university. Some law schools, however, have alternative plans. Students should consult the catalogs of the schools of law to which they plan to apply for admission. Since law schools generally expect their students to have a broad foundation in the humanities and social sciences, selection of a major in these areas is recommended.

The College of Liberal & Creative Arts provides advising and resource materials to pre-law students majoring in one of several majors: please contact Professor Joseph Tuman, Communication Studies Department; Associate Professor Carlos Montermayor, Philosophy Department; Professor M. Shelley Wilcox, Philosophy Department; or Professor Michael Graham, Political Science Department.

Pre-teaching Programs
Many students decide at some point during their undergraduate major that they would like to consider teaching in the public schools. In most cases, the requirements for the major must be adjusted to accommodate an Approved Single Subject Matter Preparation Program, those courses in a single subject that are required for entrance into teaching credential programs at this and other universities. A list of the courses required for teacher preparation in various subjects is available in department offices, as well as in the Credential Bulletin published by the Graduate College of Education.

Students considering teaching as a career are urged to contact the department’s credential adviser early in their planning, to identify the specific courses that satisfy requirements for both the major and the Subject Matter Preparation Program, and to arrange for the assessment of subject-matter competency. The credential adviser will also inform them about other pre-teaching requirements that they may wish to fulfill before graduation.

Galleries, Labs, Theatres and Workshops
Creative Arts facilities throughout the college are custom-designed to meet the needs of the college’s programs. There are five performing arts auditoria, including McKenna Theatre (seats 701, with proscenium stage, orchestra pit, fly system and 35mm projection and video system), Knuth Hall (seats 322), Little Theatre (seats 253), Studio Theatre (seats 78, with thrust stage) and the Brown Bag Theatre (seats 55, black-box design). The Coppola Theatre screening room seats 146.

The Art programs include the 3,200-square-foot Fine Arts Gallery with rear projection screen, curatorial rooms, and the Martin Wong Gallery. The department houses a printmaking archive of 500 works.

Broadcast and Electronic Communication Arts students have access to professional-grade production equipment, studios, and laboratories. Work completed by students in the department is distribution-ready for Federal Communications Commission broadcast guidelines and is in continuous distribution through terrestrial broadcast, cablecast (both
radio and video) and Internet delivery. KSFSmedia.net is the student-run distribution hub for all BECA student productions.

Production facilities include three high-definition, multi-camera television studios, a radio station, two music recording studios, two advanced sound-design-for-video studios and an array of field production equipment ranging from large-scale audio and multi-camera video simulcast equipment to professional-quality audio and video single-camera and electronic news gathering equipment. The BECA Department also maintains more than 75 computer workstations for audio and video production and post-production activity.

The School of Cinema facilities include a 250-foot shooting stage, several editing and post-production labs, sound recording and mixing studios with digital editing workstations, a Foley stage, an animation studio with film and computer workstations, two computer labs, a media library, the Bill Nichols Reading Room and the Cinema Studies Center.

The Poetry Center and American Poetry Archives, housed in the Creative Writing Department, holds the nation’s largest, most comprehensive and heterogeneous collection of poetry on tape that is accessible to the public.

The School of Design facilities include digital laboratories for graphic design, interactive media, computer-aided drafting (CAD), 3D surface and solid-modeling computer graphics and computer-aided manufacturing/rapid-prototyping.

The School of Music has dedicated large and small ensemble rehearsal spaces, three piano laboratories, a large number of practice rooms, an electronic music laboratory.

The School of Theatre Arts and Dance, in addition to four theatres, includes a scene and paint shop, costume shop, properties shop, lighting laboratory and sound design laboratory, and a dance studio.

The college supervises computer laboratories used by classes.
College of Science and Engineering

College Administrative Offices

<table>
<thead>
<tr>
<th>Title</th>
<th>Officer</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean</td>
<td>Keith Bowman</td>
<td>TH 323</td>
<td>338-1571</td>
</tr>
<tr>
<td>Associate Dean</td>
<td>Robert Ramirez</td>
<td>TH 323</td>
<td>338-1571</td>
</tr>
<tr>
<td>Director, Student Resource Center</td>
<td>Nilgun Ozer</td>
<td>SCI 247</td>
<td>405-3955</td>
</tr>
</tbody>
</table>

College Directory

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Chair/Director</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Mike Goldman</td>
<td>HH 534</td>
<td>338-1548</td>
</tr>
<tr>
<td>Chemistry and Biochemistry</td>
<td>Jane DeWitt</td>
<td>TH 806</td>
<td>338-1288</td>
</tr>
<tr>
<td>Computer Science</td>
<td>William Hsu</td>
<td>TH 907</td>
<td>338-2156</td>
</tr>
<tr>
<td>Earth &amp; Climate Sciences</td>
<td>David Dempsey</td>
<td>TH 509</td>
<td>338-2061</td>
</tr>
<tr>
<td>Engineering</td>
<td>Wenshen Pong</td>
<td>SCI 163</td>
<td>338-1228</td>
</tr>
<tr>
<td>Geography &amp; Environment</td>
<td>Jerry Davis</td>
<td>HSS 279</td>
<td>338-2049</td>
</tr>
<tr>
<td>Mathematics</td>
<td>David Bao</td>
<td>TH 937</td>
<td>338-2251</td>
</tr>
<tr>
<td>Physics and Astronomy</td>
<td>Maarten Golterman</td>
<td>TH 334</td>
<td>338-1659</td>
</tr>
<tr>
<td>Psychology</td>
<td>Jeffrey Cookston</td>
<td>EP 301</td>
<td>338-7555</td>
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Centers and Institutes

<table>
<thead>
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<th>Center/Institute</th>
<th>Director/Coordinator</th>
<th>Office</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center for Science and Mathematics Education</td>
<td>Eric Hsu</td>
<td>SCI 211</td>
<td>405-4190</td>
</tr>
<tr>
<td>Institute for Geographic Information Science</td>
<td>Jerry Davis</td>
<td>HSS 288</td>
<td>338-3566</td>
</tr>
<tr>
<td>Moss Landing Marine Laboratories</td>
<td>James Harvey</td>
<td>Moss Landing</td>
<td>(831) 771-4402</td>
</tr>
<tr>
<td>Romberg Tiburon Center for Environmental Studies</td>
<td>Karina J. Nielsen</td>
<td>Tiburon</td>
<td>338-6063</td>
</tr>
<tr>
<td>SF Bay National Estuarine Research Reserve</td>
<td>Michael Vasey</td>
<td>Tiburon</td>
<td>338-3707</td>
</tr>
<tr>
<td>Sierra Nevada Field Campus</td>
<td>J.R. Blair</td>
<td>TH 323</td>
<td>338-1571</td>
</tr>
</tbody>
</table>

The College of Science and Engineering offers the following graduate degrees:

Master of Arts

- Geography 22061
  - Concentration in Resource Management and Environmental Planning
- Mathematics 17011
- Psychology
  - Concentrations in:
    - Developmental Psychology 20091
    - Mind, Brain, and Behavior 20992
    - Social Psychology 20051

Master of Science

- Biology
  - Concentrations in:
    - Cell and Molecular 04171
    - Ecology, Evolution, and Conservation Biology 04011
    - Marine Biology 04181
    - Microbiology 04111

Bachelor of Science

- Applied Mathematics 17031
- Biochemistry 04141
- Biology
  - Concentrations in:
    - Botany 04021
    - Cell and Molecular Biology 04171
    - Ecology 04201
    - Marine Biology and Limnology 04181
    - Microbiology 04111
    - Physiology 04101
    - Zoology 04071
- Chemistry 19051
- Civil Engineering 09081
- Computer Engineering 09094
- Computer Science 07011
- Earth Sciences 19171
- Electrical Engineering 09091
- Environmental Science 49011
- Mechanical Engineering 09101
- Physics
  - Concentrations in:
    - Astrophysics 19111
    - Physics for Teaching 19021
- Statistics 17021

The College of Science and Engineering offers the following undergraduate degrees in the following disciplines:

Bachelor of Arts

- Biology 04011
- Chemistry 19051
- Earth Sciences 19171
- Geography 22061
- Mathematics
  - Mathematics for Liberal Arts 17011
  - Mathematics for Teaching 17011
- Physics
  - Concentration in Astronomy 19111
- Psychology 20011
• Physiology and Behavioral Biology 04101

• Biomedical Science 04153
  • Concentrations in:
    • Biotechnology
    • Stem Cell Science

• Chemistry 19051
  • Concentration in: Biochemistry 04141

• Computer Science 07011
  • Concentrations in:
    • Computing and Business
    • Computing for the Life Sciences
    • Software Engineering

• Engineering 09011
  • Concentrations in:
    • Structural/Earthquake Engineering
    • Embedded Electrical and Computer Systems
    • Energy Systems 09013

• Geographic Information Science 22063
• Geosciences 19172
• Physics 19021
  • Concentration in Astronomy

• Psychology
  • Concentrations in:
    • Clinical Psychology 20031
    • Industrial-Organizational Psychology 20081
    • School Psychology 20013

Certificate Program
• Certificate in Weather Study (Geoscience Department)

Mission
The mission of the College of Science and Engineering at San Francisco State University is to provide an encouraging environment to develop the intellectual capacity, critical thinking, creativity, and problem-solving ability of its students so that they may become honorable, contributing, and forward-thinking members of the science and engineering community of the San Francisco Bay Area and beyond; to foster a conducive environment for scholarly and creative activities so that new knowledge or solutions to problems are discovered or created; and to provide science education to all students in the university so that they may be equipped to succeed in the modern world.

Programs
The College of Science and Engineering is committed to providing superior scientific, engineering, and mathematical education in the context of a major urban university with a liberal arts tradition. The college offers programs at both the undergraduate and the graduate levels in astronomy, atmospheric sciences, biology, chemistry, geology, biochemistry, computer science, physics, and mathematics through the eight departments of Biology, Chemistry and Biochemistry, Computer Science, Mathematics, Earth & Climate Sciences, Geography & Environment, Psychology, and Physics and Astronomy. Through the School of Engineering, the College offers Bachelor of Science degrees in civil, computer, electrical, and mechanical engineering. At the graduate level, the School offers the Master of Science in Engineering. The College offers a Professional Science Master’s in Biotechnology and Stem Cell Science through the Biology Department. The Professional Science Master’s is an innovative degree designed to allow students to pursue advanced training in science or mathematics, while simultaneously developing workplace skills highly valued by employers. Finally, the College offers a multidisciplinary degree program in statistics drawing from courses in Business, Economics, and Mathematics. The statistics program is listed in the Department of Mathematics.

The college provides all of its students with a current, relevant, hands-on education in science and engineering. Close interaction between student and faculty in the laboratory and field environments fosters the development in the student of the critical skills required in science and engineering: the ability for objective analysis of a problem; the ability to design and carry out critical tests; and the ability to make objective interpretations of data.

Students wishing to follow one of the major and/or minor programs in the college should meet with a faculty advisor in the appropriate department immediately after admission to the university. Science and engineering curricula are inherently sequential, so early advising and satisfaction of course prerequisites are essential to success in timely completion of program requirements.

The college operates three off-campus sites providing excellent field settings for instruction and research:

• Paul F. Romberg Tiburon Center for Environmental Studies (RTC), rtc.sfsu.edu (http://rtc.sfsu.edu).
• Sierra Nevada Field Campus, www.sfsu.edu/~sierra/ (http://www.sfsu.edu/~sierra), and
• Moss Landing Marine Laboratories (MLML), mlml.calstate.edu (https://www.mlml.calstate.edu).

Applications to the M.S. in Biology concentration in Marine Biology should be directed to SF State with the understanding that SF State or RTC (see below) will be the principal place of study. Applicants to the M.S. in Marine Science should submit applications to the graduate programs at San Jose State University or CSU Monterey Bay. All students can take courses at the SF State campus, RTC (see below) and at MLML.

The Romberg Tiburon Center for Environmental Studies
The Romberg Tiburon Center for Environmental Studies (RTC) is the marine research field station of the College of Science and Engineering, located approximately 25 miles north of the main campus in Marin County. The long-range vision for RTC is to be the leading estuarine and coastal academic institution on the West Coast of the United States of America, with a focus on the understanding of the San Francisco Bay and its surrounding environments. The designation of the S.F. Bay National Estuarine Research Reserve, headquartered at RTC, provides additional resources and coordination for Bay Area environmental science and policy.

RTC is an off-campus research and teaching facility operated year-round and is the only academic research facility on S.F. Bay, one of the largest estuaries in the U.S. The center is part of the College of Science and Engineering and has affiliations with the College of Behavioral and Social Sciences. All degree programs and course offerings are administered through the university, with most students enrolled in the Master of
Science in Biology Concentration in Marine Biology. RTC’s educational mission is to provide undergraduate and graduate courses in biology, geography, and geology that promote learning in the fields of marine biology, estuarine ecology, and oceanography. Students from any degree program are welcome to attend classes at the center and to conduct research with faculty sponsorship. RTC is also involved in community outreach, offering teacher workshops biannually and a summer education program for the community that provides general interest environmental courses.

RTC is situated on a 34-acre waterfront parcel in Tiburon, California. The physical facilities are comprised of the main research laboratory, a smaller waterfront research laboratory, the administrative/teaching building, the marine/technical operations facilities, the Ohrenschall Guest Center, the Bay Conference Center, and numerous other storage and staging facilities. RTC also owns several boats used for research including a 38’ aluminum hulled vessel, the R/V Questuary. RTC is administered by a director, with the support of an on-site staff, and RTC’s scientific staff consists of tenured or tenure-track faculty with joint appointments in home departments on the main campus of SF State, senior research scientists, visiting scientists, post-doctoral fellows, and numerous research technicians.
UNDERGRADUATE
ADMISSIONS

General Admission Requirements and Procedures
Requirements for admission to San Francisco State University are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Undergraduate applicants who are unsure of these requirements should consult a high school or community college counselor or San Francisco State University's Admissions Office. Complete information is available at www.csumentor.edu/planning/ (http://www.csumentor.edu/planning).

Electronic CSU undergraduate applications are available at www.csumentor.edu/ (http://www.csumentor.edu) through May 31, 2017. At that time the CSU is transitioning to a new application for all 23 campuses, Cal State Apply. The first semester of implementation will occur with the Spring 2018 admission cycle. More information about the new application process will be provided as it becomes available. Both the CSUMentor and Cal State Apply systems allow students to browse through general information about CSU's 23 campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid.

Applying online via www.csumentor.edu (http://www.csumentor.edu) is expected unless electronic submission is impossible. An acknowledgment will be sent when online applications have been submitted. Application in "hard copy" form may be obtained online via www.csumentor.edu (http://www.csumentor.edu) as a portable data format (PDF). Application forms (in PDF) may also be downloaded from www.calstate.edu/sas/publications (http://www.calstate.edu/sas/publications). (Paper applications should be mailed to the campus admission office.)

Students without on-line access should contact any California high school, community college, or Office of Admissions at any of the campuses of the California State University. San Francisco State University accepts applications for admission for the fall and spring semesters only.

Application Filing Periods
Application periods for San Francisco State University may change. For the most current information, see the Future Students (http://www.sfsu.edu/future) page at www.sfsu.edu/future/ (http://www.sfsu.edu/future). Please note that some departments do not accept applications for spring admission.

Fall Semester 2017
- Applications first accepted: October 1, 2016
- Initial filing period: October 1 – November 30, 2016

Spring Semester 2018
- Applications first accepted: August 1, 2017
- Initial filing period: August 1 – 31, 2017

Filing Period Duration
Each campus accepts applications until capacities are reached. Many campuses limit undergraduate admissions in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the CSU Mentor Application Status Report (http://www.csumentor.edu/filing_status) for extended application filing deadlines.

Importance of Filing Complete, Accurate, and Authentic Application Documents
SF State advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire, and financial aid forms. Further, applicants must, when requested, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Cancellation of Admission
Admission will be canceled automatically if a student is accepted by San Francisco State University for a given semester and does not register for that semester. If the student wishes to undertake work at the University at a later date, he/she must file a new application, pay a new application fee, and meet the requirements for admission in effect at the time of admission.

Reservation
The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

Undergraduate Application Procedures
SF State accepts applications from prospective students for part-time or full-time undergraduate programs of study in day and evening classes. Undergraduate applicants must file a complete undergraduate application at www.csumentor.edu (http://www.csumentor.edu) and submit a $55 nonrefundable application fee. The application fee may not be transferred or used to apply to another term. The applications of persons denied admission to an impacted campus may be re-routed to another campus, at no cost but only if the applicants are CSU eligible.

Application Acknowledgment
Students applying on-line on CSU Mentor will receive an e-mail acknowledgement as soon as the application is successfully submitted and a confirmation number is issued. Additional email notifications will be sent by the campus requesting submission of academic records necessary for the campus to evaluate the student's qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, campus requirements for admission to an impacted program. An offer of admission is not transferable to another term or another campus.
Notification of Admission
Applicants who have received an application receipt notice and have submitted all required admission materials will begin to receive notification of acceptance or denial of admission to the fall semester on November 1, and for the spring semester on August 15. If the processing schedule permits, some applicants may be notified in advance of these dates.

Appeal of the Notification of Denial of Admission
Applicants may appeal the Notification of Denial of Admission to the Office of Undergraduate Admissions within fifteen days of the date of the denial notification. The appeal should be initiated by the applicant via phone (415) 338–6486 or (415) 338–1634. Many appeals will be resolved in the initial contact. When additional information is required, the applicant will be instructed about how to provide this to Undergraduate Admission. The time frame for conclusively addressing an appeal will vary with the complexity of the appeal.

Hardship Petitions
The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should enclose with their applications a statement of the hardship situation. The application and statement should be sent to the Director of Undergraduate Admissions.

Impacted Programs
The CSU will announce during the fall filing period those programs that are impacted and the supplementary criteria each campus will use. System-wide impaction of admission may be announced, when unexpected circumstances necessitate a curtailment of admission to specific campuses. Detailed information on campus and program impaction is available at www.calstate.edu/impactioninfo.shtml (http://www.calstate.edu/sas/impactioninfo.shtml), http://www.calstate.edu/sas/impaction-campus-info.shtml, and via www.csumentor.edu (http://www.csumentor.edu). That announcement will also be published in official CSU publications distributed to high school and college counselors and made available online at www.calstate.edu (http://www.calstate.edu). Information about the supplementary criteria is also provided to program applicants.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admissions consideration.

Impaction at SF State
The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated by the campus. Impacted majors are authorized to use supplementary admission criteria and/or higher admission standards than the CSU minimum requirements in considering applicants to the program. These criteria are applied equally to continuing SF State students and new applicants alike. For information regarding specific application criteria and deadlines for majors impacted at SF State click on the program of interest below.

- Accounting Concentration in Business (p. 200)
- Apparel Design & Merchandising (p. 446)
- Biology (p. 1034) (all concentrations)
- Chemistry (BA) and Biochemistry (BS) (p. 1107)
- Chemistry (BS) (p. 1115)
- Child and Adolescent Development (p. 407) (all concentrations)
- Communication Studies (p. 707)
- Criminal Justice (p. 474)
- Dietetics (p. 438)
- Environmental Studies (p. 492) (all concentrations)
- Health Education (p. 510)
- Industrial Design (p. 758)
- Kinesiology (p. 527) (all concentrations)
- Nursing (p. 545)
- Pre-Nursing (p. 545)
- Psychology (p. 1296)
- Social Work (p. 581)
- Sociology (p. 590)
- Visual Communication Design (p. 763)

Supplementary Admission Criteria
Each campus with impacted programs or admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank—ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on the overall transfer grade point average, completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible but no later than December of the preceding year.

The supplementary admission criteria used by the individual campuses to screen applicants are made available by the campuses to all applicants seeking admission to an impacted program. Details regarding the supplemental admissions criteria are also provided at http://www.sfsu.edu/future/apply/impacted.html.

Undergraduate Admission Requirements
Test Requirements
Freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores for either the ACT or the SAT. Please note: SF State is not currently accepting applications from lower division transfer applicants. Persons who apply to an impacted program may be required to submit test scores and should take the test no later than November or December. Test scores are also used for advising and placement purposes. Registration forms and dates for the SAT or ACT are available from school or college counselors or from a CSU campus testing office. Students may also write to or call:

For SAT
The College Board
Registration Unit, Box 6200
Princeton, NJ 08541–6200
(609) 771–7588
www.collegeboard.org (http://www.collegeboard.org)

For ACT
ACT Registration Unit
P.O. Box 414
TOEFL Requirement
All undergraduate applicants whose native language is not English and who have not attended schools at the secondary level or above for at least three years full-time where English is the principal language of instruction must present a minimum score of 61 on the internet-based Test of English as a Foreign Language (TOEFL), 500 on the paper-based TOEFL, or 173 on the computer-based TOEFL. Students whose native language is English and attended an educational institution at the secondary level or above where English was the principal language of instruction for at least three years full time will not be held to the TOEFL admission requirement. Some majors may require higher scores. Institutional TOEFL scores are not accepted. Campuses specify the conditions for meeting the requirement of three years full-time English language instruction. Achieving the minimum TOEFL score shall be evidence of the applicant's English competency at a level that will allow the applicant to participate satisfactorily in and benefit from university study. For complete information regarding TOEFL, go to www.toefl.org (http://www.toefl.org).

Systemwide Placement Test Requirements
The California State University requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms. (For more information, see Entry Level Mathematics [ELM] (p. 70) examination and English Placement Test [EPT] (p. 71).)

Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to the Testing Center, HSS 206, (415) 338–2271, or at the Testing Center website: www.testing.sfsu.edu (http://testing.sfsu.edu).

First-Time Freshmen Applicants
A first-time freshman is a student who has earned no college credit beyond the summer immediately following high school graduation. Generally, local area first-time freshmen applicants qualify for regular admission if they:

1. have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination; and
2. have qualifying minimum eligibility index (see Eligibility Index below), and
3. have completed with grades of C or better each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a–g" pattern (see Subject Requirement (p. 55)).

Note: Applicants from outside of SF State's six county service area may be held to different requirements. For more information concerning service area admission please visit online at http://www.sfsu.edu/future/apply/impacted.html.

Eligibility Index
The eligibility index is the combination of the high school grade point average and scores on either the ACT or the SAT. The grade point averages are based on grades earned in courses during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a–g" subject requirements, and bonus points for approved honors courses. (See Honors Courses (p. 55) below).

The CSU Eligibility Index (EI) can be calculated by multiplying the grade point average by 800 and adding the total score on the mathematics and critical reading scores of the SAT. Students who took the ACT, multiply the grade point average by 200 and add ten times the ACT composite score. California high school graduates (or residents of California for tuition purposes) need a minimum index of 2900 old test or 2950 revised test using the SAT or 694 using the ACT. The Eligibility Index Tables illustrate several combinations of required test scores and averages (California High School Graduates or Residents Eligibility Index Table (p. 61) / Nonresidents or Graduates of High Schools Outside of California Eligibility Index Table (p. 63)).

For admission to terms during the 2017–2018 college year, the University has no current plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index.

Persons who have not graduated from a California high school and are residents of California for tuition purposes need a minimum index of 3502 old (SAT) or 3570 new (SAT) or 842 (ACT). Applicants from outside the local area may be held to a higher standard. Graduates of secondary schools in foreign countries must be found to have academic preparation and abilities equivalent to applicants eligible under this section.

All applicants for admission are required to take the SAT or ACT and provide the scores of those tests to each CSU to which they seek admission. Campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. Impacted CSU campuses require SAT or ACT scores of all applicants for freshman admission.

Honors Courses
Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade, can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

Note: A grade point average of 3.00 and above qualifies with any score on the ACT or SAT. Applicants from outside of SF State's six county service area may be held to different requirements. A grade point average of below 2.00 does not qualify for regular admission.

Subject Requirements
The California State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A “unit” is one year of study in high school.

Iowa City, IA 52240
(319) 337–1270
www.act.org (http://www.act.org)
Two years of social science, including one year of U.S. history, or U.S. history and government;
Four years of English;
Three years of mathematics (algebra, geometry, and intermediate algebra);
Two years of laboratory science (one year of biological science and one year of physical science, both must include laboratory instruction);
Two years in the same language other than English (subject to waiver for applicants demonstrating equivalent competence);
One year of visual and performing arts (art, dance, drama/theater, or music);
One year of electives selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, or other courses approved and included on the UC/CSU "a–g" list.

Subject Requirement Substitution for Students with Disabilities
All freshman applicants are encouraged to complete 15 units of college preparatory subjects. If an applicant is otherwise qualified, but unable to complete certain subjects because of a disability, an appeal can be made to the Admissions Office. The appeal committee recommends that the appeal include disability documentation by a qualified professional that illustrates how the disability has affected academic performance.

Subject Substitutions for Students with Disabilities: After admission to and enrollment in the university, students with disabilities who find they need to seek a course substitution should consult with the Disability Programs and Resource Center and be aware that course substitutions may limit later enrollment in certain majors.

Language Other Than English (LOTE) Requirement
The language other than English subject requirement may be satisfied by applicants who demonstrate equivalent competence in another language comparable to two years of high school foreign language study. Consult with a school counselor or the campus admissions office or Student Outreach Services for further information.

Making Up Missing College Preparatory Subject Requirements
Lower division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways.

- Complete appropriate courses with a C or better in adult school or high school summer sessions.
- Complete appropriate college courses with a C or better. One college course of at least three semester or four quarter units is considered equivalent to one year of high school study.
- Earn acceptable scores on specified examinations, e.g., SAT subject tests.

Please consult with any CSU admissions office for further information about alternative ways to satisfy the subject requirements.

Note: Many CSU campuses, including San Francisco State University, are not accepting lower division transfers. Ask the CSU campus if you can apply as a freshman or sophomore transfer before taking college courses to make up high school subject requirements.

Conditional Admission
San Francisco State University may conditionally admit first-time freshmen applicants using self-reported academic preparation through the junior year of high school and planned courses for the senior year. Students are required to submit an official transcript after graduation to certify that all college preparatory course work has been satisfactorily completed as well as proof of high school graduation. Official high school transcripts must be received prior to the deadline set by the university. Documentation of high school graduation may not be received any later than the census date for a student’s first term of enrollment. The University may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any university registration for students who are found not to be eligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-conditional) admission when the university verifies that they have graduated and received a diploma from high school, meet the minimum eligibility index, have completed the comprehensive pattern of college preparatory "a–g" subjects, and, if applying to an impacted program, have met all supplementary criteria.

High School Students
Students still enrolled in high school are considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a specific program and does not constitute a right to continued enrollment.

California Promise
The California Promise Program enables a specific number of campuses of the California State University (CSU) to establish pledge programs for entering first-time students who are both interested and able to complete baccalaureate degrees in four years. Many campuses have also established programs for students with Associate Degrees for Transfer from any California Community College to complete their baccalaureate degrees in two years. The program is limited to students who are residents of California.

Students who commit to enter either the 4-year or 2-year pledge will be given a priority registration appointment for each state-supported enrollment period and will be provided with routine and thorough academic advisement. To remain in the program, students must meet with their advisors as prescribed, develop an enrollment plan, and complete 30 semester units or quarter equivalent within each academic year, including summer. Participating campuses may stipulate other important requirements as well. Interested students entering the CSU in the fall 2017 term should contact the campus offices or visit www.calstate.edu/sas/california-promise.shtml (http://www.calstate.edu/sas/california-promise.shtml).

Students with Disabilities
If an applicant is otherwise qualified, but unable to complete certain subjects because of a disability, an appeal can be made to the Admissions Office. The appeal committee recommends that the appeal include disability documentation by a qualified professional that illustrates how the disability has affected academic performance.
Reentry Student Admission
As an alternative to regular admission criteria, an applicant who is twenty-five years of age or older may be considered for admission if he/she meets all of the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a C average or better in all college work attempted.
4. Is exempt from ELM and EPT or has taken course work that demonstrates competence in the entry-level skills that those tests assess.
5. Has applied to and been denied university admission based on regular admission criteria and has received a referral for an interview from Undergraduate Admissions.
6. Has completed an interview to determine
   a. the adequacy of the applicant’s motivation, preparation, and ability for academic success and
   b. that other educational alternatives are not appropriate.
   Upon the recommendation of the interviewer, the student may be admitted to the university under the aegis of CSU Executive Order No. 413.

Evaluation of Academic Records
Advanced Placement
San Francisco State University grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement (AP) Program of the College Board. Students who present scores of three or better may be granted up to six semester units of college credit.

The university also recognizes advanced placement (AP) courses undertaken by high school students in conjunction with a collegiate institution in those instances where the collegiate institution has recommended credit. For additional information, the student may call or write the Admissions Office or visit One Stop in the Student Services Building.

Credit from Colleges Holding Regional Accreditation
Credits earned in colleges holding regional accreditation are evaluated and advanced standing allowed on the basis of the evidence submitted on official transcripts. Credit toward the fulfillment of graduation requirements is allowed if the courses satisfactorily completed meet the standards and requirements of the university.

Credit from Colleges Lacking Regional Accreditation
Credits earned in colleges lacking regional accreditation may be accepted as a basis for advanced standing only when an applicant can demonstrate by examination, after he/she has enrolled in the university, that a satisfactory degree of proficiency has been attained in the courses in question. See Credit by Examination (below) for further information.

Credit for Community College Courses
Credit earned in accredited community colleges will be evaluated by the Admissions Office in accordance with the following provisions:

1. Community college credit is allowed up to a maximum of 70 semester units. Credits and grades earned after the student has the maximum allowable may be used on approval only to satisfy subject and grade point requirements but under no circumstances may they be applied toward the total units required for graduation from the university.
2. No upper division credit may be allowed for community college work.
3. Credit for one course may be transferred from a community college for a course in the introduction to education. No other credit is allowed for professional courses in education.

Credit by Examination
Students may challenge courses by taking examinations developed at San Francisco State University. Credit shall be awarded to those who pass them successfully. See Maximum Credit by Examination or Evaluation (p. 143) for additional information.

Credit for Non-Collegiate Instruction
San Francisco State University grants undergraduate degree credit for successful completion of formal instruction appropriate to the baccalaureate degree in non-college settings, either military or civilian, that has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs establish the numbers of units allowed.

Transfer Students
Transfer Policies of CSU Campuses
Authority for decisions regarding the transfer of undergraduate credits is delegated to each California State University (CSU) campus. Most commonly, college level credits earned from an institution of higher education accredited by a regional accrediting agency recognized by the United States Department of Education is accepted for transfer to campuses of the CSU.

General education requirements are the same for all CSU campuses, so California community college articulations of general education courses (about one-third of degree requirements) are handled centrally and may be accessed at www.assist.org (http://www.assist.org).

Campuses may enter into articulation agreements on either a course for course or program to program basis. Such articulations are common between CSU campuses and any or all of the California community colleges. Other articulation agreements may exist between CSU campuses and other institutions outside of the California Community College system. Established CSU/CCC articulations may be found on www.assist.org (http://www.assist.org).

No more than 70 semester units may be transferred to a CSU campus from an institution which does not offer bachelor’s degrees or their equivalents, e.g., community colleges. Given the university’s 30-unit residency requirement, no more than 90 total units may be transferred to the University from all sources.

First Time Freshmen with Transfer Units
Students who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet those admission requirements.
Lower Division Transfer Requirements
Due to enrollment pressures, many CSU campuses do not admit or enroll lower division transfer students. Currently, SF State is not accepting lower division transfer students. Students who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) at the time of entrance are considered lower division transfer students.

Upper Division Transfer Requirements
Students who have completed 60 or more transferable semester college units (90 or more quarter units) at the time of entrance are considered upper division transfer students. Generally, applicants qualify for admission as upper division transfer students if they meet all of the following requirements:

1. Have a grade point average of at least 2.0 (C or better) in all transferable units attempted. Applicants from outside of SF State’s six county service area may be held to a different GPA requirement.
2. Are in good standing at the last college or university attended and have completed at least 60 transferable semester units of college course work with a grade-point average of 2.0 or higher.
3. Receive a grade of C– or better in each course used to meet CSU general education requirements commonly referred to as the Golden 4 which includes Written Communication, Oral Communication, Critical Thinking and Quantitative Reasoning.
4. The 60 units must include the Golden 4 requirements listed above.

Associate Degree for Transfer (ADT)
Student Transfer Achievement Reform (STAR) Act (SB 1440)
The Student Transfer Achievement Reform (STAR) Act (SB 1440) establishes an Associate Degree for Transfer (ADT) for transfer for California Community College students and is designed to provide a clear pathway to the CSU degree major.

Students will submit official transcripts documenting conferral of the ADT upon request. Upon final verification of conferral of the ADT, Students earning either a transfer associate (AA-T or AS-T) degree prior to matriculation at SF State are guaranteed admission with junior standing to the CSU and given priority admission over other transfer students when applying to a local campus, or non-implemented program. AA–T or AS–T admission applicants are given priority consideration to an impacted campus/program or to campuses/programs that have been deemed similar to the degree completed at the community college.

Students who earn an AA-T or AS-T have met all lower division General Education (GE) requirements in transfer. Students should consult their Degree Progress Report (DPR) to see whether they have satisfied American Institutions and lower division Written English Requirements prior to transfer.

Students who earn an AA-T or AS-T degree but change their major to a non-similar major after admission to SF State have satisfied all lower division GE requirements but may not be able to complete all graduation requirements for the new major within 60 semester units. This also applies to students who choose to pursue a second major, or a minor, certificate or credential simultaneously.

Students with verified ADTs admitted during the 2014-2015, 2015-2016, and 2016-2017 academic years and who are pursuing similar majors are waived from the SF State Studies (previously Overlay) requirements. B.A. students must complete the Complementary Studies requirement as defined by the major department; with the approval of a department advisor, units taken in transfer or in residence at SF State may be used to satisfy Complementary Studies.

SF State degree programs formally approved as “similar” to ADT degree programs, with links to sample roadmaps, are available here: http://uap.sfsu.edu/articulation/roadmaps

These sample roadmaps display a possible pathway through the major based on four semesters of full-time attendance. Note that “similar” in this context means that SF State faculty have reviewed the relevant ADT curriculum and determined that a student earning that ADT can complete the SF State degree in no more than 60 units. Although the STAR Act guarantees completion of a similar BA or BS degree in 60 units, a timeframe for degree completion is not specified or guaranteed, particularly if options chosen as part of the AA-T or AS-T were not consistent with the prerequisite structure of the major at SF State.

Conditional Admission of Transfer Applicants
San Francisco State University may conditionally admit transfer applicants based on their self-reported academic preparation and courses planned for completion. All accepted applicants are required to submit official transcripts of all college-level work completed and final review will be conducted prior to the start of the semester to ensure that those admitted completed all required courses satisfactorily. The University may rescind admission for any student who is found not to be eligible after the final transcript has been evaluated. In no case may such documents be received and validated by the University any later than a student’s registration for their second term of CSU enrollment.

California Promise
The California Promise Program enables a specific number of campuses of the California State University (CSU) to establish pledge programs for entering first-time students who are both interested and able to complete baccalaureate degrees in four years. Many campuses have also established programs for students with Associate Degrees for Transfer from any California Community College to complete their baccalaureate degrees in two years. The program is limited to students who are residents of California.

Students who commit to enter either the 4-year or 2-year pledge will be given a priority registration appointment for each state-supported enrollment period and will be provided with routine and thorough academic advisement. To remain in the program, students must meet with their advisors as prescribed, develop an enrollment plan, and complete 30 semester units or quarter equivalent within each academic year, including summer. Participating campuses may stipulate other important requirements as well. Interested students entering the CSU in the fall 2017 term should contact the campus offices or visit www.calstate.edu/sas/california-promise.shtml (http://www.calstate.edu/sas/california-promise.shtml).

International Student Admission Requirements
The CSU must assess the academic preparation of international students. For this purpose, “international students” include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. The CSU uses separate requirements and application filing dates in the admission of international students. Verification of English proficiency (see the section on TOEFL Requirement
(p. 53)) for undergraduate applicants, financial resources, and academic performance are each important considerations for admission. Academic records from foreign institutions must be on file no later than the established document deadline date. Documents not in English must be accompanied by certified English translations.

San Francisco State University considers applications and accepts qualified applicants for admission to the university according to the International Student Application Calendar. (Earlier application deadlines may be enforced by various academic departments, please check with the department for earlier deadlines).

All F-1/J-1 visa international students must be formally admitted and enrolled in a declared major. They may not be enrolled in the university in non-degree status unless through a College of Extended Learning approved program.

**International Student Application Calendar**

Application periods for San Francisco State University may change. Earlier application deadlines may be enforced by various academic departments, please check with the department for earlier deadlines. For the most current information, see the Future Students (http://www.sfsu.edu/future) page on the SF State Web site.

**Undergraduate Application Periods**

- Fall Semester (which begins in August): October 1 – May 1
- Spring Semester (which begins in January): August 1 – September 30

Any student who is a permanent resident (holds an Alien Registration Card or endorsed I-94, showing U.S. immigration service approval of Permanent Resident application) is not subject to the International Student Application Calendar, subject only to the same program deadlines as United States citizen applicants. **Students in this category must submit with their application a copy of their Alien Registration Card or endorsed Form I-94.**

**Tuition and Costs**

The university does not have federal or state financial aid for international students. Therefore, the student must present satisfactory evidence of adequate funds to meet financial needs at the time of enrollment at the university. International students are required by the U.S. Immigration service to enroll at SF State in full-time status; for undergraduate students, this means at least 12 units per semester. For current tuition and costs, see the SF State Bursar’s Office web site (http://www.sfsu.edu/~bursar) (see the link to Schedule of Tuition and Fees/Registration Process).

**Admission Procedures**

1. Complete and submit the CSU Application for Admission at csumentor.edu (http://www.csumentor.edu).

2. Students will be required to submit official, original or certified/attested copies of all original academic documents in the original language of issue. Copies must be certified by the appropriate government or school officials. Required documents include the complete official academic record showing all courses or subjects, dates of enrollment and grades/marks received; official degree(s), diplomas, or certificate(s) awarded. Official word-for-word English translations must be submitted in addition to the original language documents.

3. Applicants who are presently attending a college or university in the United States must, in addition to their international records, submit official transcripts of all work completed and in progress.

4. Applicants must be qualified to enter a university in their home country and have a good scholastic record from an accredited/recognized school.

5. All applicants for admission to the university must pay a $55.00 application fee. The application fee is not refundable nor can it apply toward a later application for admission.

6. All SF State undergraduate applicants, regardless of citizenship, must demonstrate English Language Proficiency by exam or previous academic instruction in English.

a. **Exam (TOEFL, IELTS):**

   Applicants can demonstrate English Language Proficiency by submitting official TOEFL or IELTS Score Reports.

   **Minimum Scores Required** (Note that some majors may require higher scores):

   - **TOEFL** (Test of English as a Foreign Language)
     - Paper-based Test (PBT): 500
     - Computer-based Test (CBT): 173
     - Internet-based Test (IBT): 61

   Note that Institutional TOEFL scores do not include Speaking nor Writing Sections and so are not accepted. Specific information regarding the exact testing dates, testing centers, fee, and registration is on the Web at www.toefl.org (http://www.toefl.org). Applicants must request that test results be sent to the Admissions Office. The SF State undergraduate institutional code is 4684.

   - **IELTS** (International English Testing System)
     - Minimum Overall Score 6.0
     - Specific information regarding the exact testing dates, testing centers, fee, and registration is online at ielts.org (http://www.ielts.org).

b. **Education in English:**

   Students who have successfully completed three years of full-time courses at the secondary level or above at an institution where English was the principal language of instruction do not need to submit TOEFL/IELTS scores.

   Upper division undergraduate transfer students from a U.S. university/college who have met the CSU admission subject requirements, which include the English courses Oral Communications, Written Communication and Critical Thinking may be exempt from the TOEFL/IELTS requirement.

**SF State’s American Language Institute**

Applicants who do not have the minimum TOEFL/IELTS score may enroll in SF State’s intensive English language program, American Language Institute (ALI). ALI prepares non-native speakers of English for academic study in the university and issues certificates of eligibility for student visas. For more information, call (415) 338-1438 or go to ali.sfsu.edu (http://ali.sfsu.edu).

**Type of Visa**

San Francisco State University is authorized under federal law to enroll non-immigrant alien students. International students who are outside of the United States, upon receipt of admission documents and U.S. Immigration Certificate of Eligibility, should secure a non-immigrant student visa. The College of Extended Learning is also authorized under federal law to enroll non-immigrant alien students. **Subsequent**
to admission, international students must be enrolled continuously every semester and carry a full course of study (twelve units for undergraduates).

Health Insurance
International students (F and J visas) are required to show evidence of health insurance coverage to be permitted to register for courses. Renewals are checked each semester to re-register unless the insurance policy is purchased annually. For additional information, students should go to the Health Service web site at health.sfsu.edu (http://health.sfsu.edu).

Readmission and Special Sessions
Former students of the university must apply for readmission if they have been absent for two consecutive semesters (excluding winter and summer sessions). A student must be enrolled in at least one class through the end of the 20th day of instruction to be considered a continuing student. (See Planned Educational Leave of Absence (p. 146) for more information.) If a student has attended any other educational institution since previous attendance as a matriculated student at this university, transcripts for that academic work must be supplied at the time of readmission.

Undergraduate applications for readmission and all supporting materials must be filed in the Admissions Office in accordance with current requirements and procedures. Students on academic probation, who discontinued their official enrollment at the university for more than one semester, will be considered for readmission only upon presentation of evidence of having earned a C average in all university work attempted at San Francisco State University. Grade point deficiencies incurred at San Francisco State University may be removed only by course work taken through Open University, Winter Session, or Summer Session at San Francisco State University.

Readmission information for graduate students can be found in the Graduate Studies section of this Bulletin.

Special Sessions
A limited number of degree, credential, and certificate programs are offered through special sessions. To be considered officially matriculated at SF State, special sessions students must be admitted to a specific degree, credential, or certificate program offered by an academic department via the College of Extended Learning (CEL) and then enroll through CEL in the courses for that specific program. Special sessions degree, credential, and certificate students have matriculated status.

The list of current and anticipated special sessions programs, grouped by category (degree, credential, and certificate) appears in the College of Extended Learning (p. 42) section of this Bulletin.

The following websites provide additional information: http://ueap.sfsu.edu/, and https://cel.sfsu.edu/.
Eligibility Index Table for California High School Graduates or Residents of California 2018–2019

(A GPA of 3.00 and above qualifies for any score in ACT and SAT)

These NEW SAT Eligibility Index scores will be effective for the upcoming 2018–2019 admissions cycle

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GPA Below 2.0 does not qualify for admission

*For admissions purposes, the CSU uses only the new SAT scores for mathematics and evidence based on reading and writing.
Eligibility Index Table for Nonresidents or Graduates of High Schools Outside of California 2018–2019

ACT or SAT score required for regular admission by grade point average (GPA). A grade point average of 3.61 and above qualifies with any score. A grade point average below 2.47 does not qualify for regular admission.

These NEW SAT Eligibility Index scores will be effective for the upcoming 2018–2019 admissions cycle.

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GPA below 2.47 does not qualify for admission.

*For admissions purposes, the CSU uses only the new SAT scores for mathematics and evidence based on reading and writing.
AP – IB – CLEP Examinations

Standardized External Examinations

San Francisco State University grants credit toward its undergraduate degrees for successful completion of the three standardized exams below. For credit to be awarded, official score information must be sent directly to SF State from the test administrator - College Board (AP, CLEP) or International Baccalaureate (IB).

Students may not earn duplicate credit if they have previously completed or subsequently complete equivalent exams or college-level course work.

Select an examination below for information about the award of SF State credit.

Advanced Placement (AP) (https://ueap.sfsu.edu/sites/default/files/assets/docs/artic_docs/AP_Credit_curr.pdf)

College-level Examination Program (CLEP) (https://ueap.sfsu.edu/sites/default/files/assets/docs/artic_docs/CLEP_Credit_curr.pdf)

International Baccalaureate (IB) (https://ueap.sfsu.edu/sites/default/files/assets/docs/artic_docs/IB_Credit_curr.pdf)

Previous Years (Archives) (http://ueap.sfsu.edu/articulation/resources)
At SF State, students acquire these skills and this knowledge through General Education (GE), major, minor and/or elective courses. All are important parts of the overall experience of a liberal education to prepare students to be successful in the 21st Century.

SF State awards three baccalaureate degrees:

- Bachelor of Arts (B.A.)
- Bachelor of Science (B.S.)
- Bachelor of Music (B.M.)

Requirements for all three degrees are listed on the following pages. Consult your major department for specific degree requirements.

**Major**

Completion of a major is a graduation requirement. A major is a study in depth a focused area of study that requires the student to take a specific set of courses that lead to a deep understanding of a particular subject matter. At SF State there are over 100 undergraduate majors. Choosing a major involves declaring this choice at the time of admission or consulting with faculty advisors and then submitting a Change of Major Form to the department office of the intended major.

Typically, students declare their major during their sophomore year after completing most of their lower division General Education requirements. Lower division students who are undecided about their major may identify themselves as undeclared. Being undeclared provides the opportunity to explore a variety of courses in different areas of interest. Students who enter SF State as freshmen must declare a major by the time they complete 70 units.

Some majors are identified as impacted. These majors are in high demand and more students than can be accommodated want to declare these areas of study as their majors. An impacted major may include supplemental admission requirements. Requests to declare impacted majors must be received by the end of the initial filing period for the term for which new majors are being accepted. Continuing students who have earned 96 units or more may be prevented from changing into an impacted major.

Some majors require that students meet specific prerequisites before gaining admission.

The change of major period for all non-impacted majors is August 1 – October 1 for the Fall semester and January 1 – March 1 for the Spring semester.

The following rules apply to all undergraduate majors:

- **Double Major**
  
  With careful academic planning, it may be possible for students to complete two majors. When possible, students are encouraged to complete both degrees without exceeding 120 units. Students who are significantly over 120 units may be monitored and required to meet with an academic advisor to track their degree progress. Students who complete two majors may apply for both degrees in a single commencement by submitting one degree application with approval from both major departments. No additional fee is required for the second application.

- **Duplicate Use of Credit Between Majors**
  
  Students who complete two majors may count the same courses for both majors where there is a clearly stated overlap in the Bulletin requirements. While these courses may be used to satisfy
requirements for two majors, the units shall be counted only once in fulfillment of the minimum units required for award of the baccalaureate degree.

- **Duplicate Use of Credit Between the Major and GE**
  If applicable, an unlimited number of courses used to meet General Education requirements may be used to fulfill major requirements. While these units (courses) may be used to satisfy both major requirements and GE requirements, they shall be counted only once in fulfillment of the minimum units required for award of the baccalaureate degree.

- **Change of Major**
  Students who change their major after being admitted, or who declare a major after being admitted with an undeclared major, must fulfill the major requirements in effect at the time they declare or change their major. Students requesting to change their major after 96 units must complete a special change of major form found here (http://www.sfsu.edu/~admisrec/forms/regforms/cmf96units.pdf). Students who have earned 96 units or more may be prevented from changing into an impacted major.

- **Residence Units**
  A minimum of twelve units in the major must be completed in residence.

- **Grade Point Average**
  Students must have a minimum 2.0 grade point average (GPA) in their major. Some majors have additional minimum grade requirements. Consult with the major department.

- **Time Limit to Complete Requirements for Undergraduate Degree**
  There is normally no statutory period for units required for an undergraduate degree at SF State. However, if any course required for the major, minor, or certificate was taken more than seven years prior to graduation, then departments and programs may require students to retake that course or demonstrate currency in that subject. Consult with the department for more information.

**Complementary Studies: Bachelor of Arts Degrees (12 Units Minimum)**

Bachelor of Arts students must complete at least 12 units of Complementary Studies outside of the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement. Students earning Bachelor of Music or Bachelor of Science degrees do not have to complete the Complementary Studies requirement. Details about Complementary Studies can be found in the Bulletin description for each B.A. degree. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. These students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**Minor**

Students may also elect to complete a minor. Students are encouraged to complete the minor and major within 120 units. Like a major, the minor is a focused area of study; however, a minor does not require as many units. Currently, at SF State, only the Journalism major requires a minor to earn a bachelor’s degree.

The following policies apply to completion of an approved minor:

- **Duplicate Use of Credit Between Major and Minor**
  Courses may count for both a major and a minor where there is a clearly stated overlap in the Bulletin requirements. While these courses may be used to satisfy requirements for both a major and a minor, the units shall be counted only once in fulfillment of the minimum units required for award of the baccalaureate degree.

- **Duplicate Use of Credit Between Minor and GE**
  No limitations.

- **Upper Division/Residence Units**
  At least half of the units making up the minor must be taken in residence and at least half must be upper division.

- **Minimum Units**
  A minor must include a minimum of twelve (12) units.

- **No Minor in Major**
  Students may not earn a major and a minor in the same discipline.

- **Grade Point Average**
  A minimum 2.0 grade point average is required in the minor. Some minors have additional minimum grade requirements. Consult with the department.

**Introduction to General Education**

Your major provides in-depth study in one subject matter, often one directly related to a particular career. General Education (GE), on the other hand, involves study in breadth – for acquiring knowledge and skills for a range of future experiences throughout life, for providing the intellectual agility for moving from one career to another, and for making future contributions in a number of possible communities. The University requires students to complete 48 units of General Education requirements (GE).

Areas A through D of GE contain only lower division classes and should be taken in the first two years of college. They provide basic skills as well as breadth in a variety of disciplinary areas. Area A of GE is designed to improve student’s basic skills in communication in English (oral and written) and critical thinking. Area B of GE provides a breadth of knowledge about the physical and life sciences, including laboratory experiences. Area B also provides students an opportunity to expand their mathematics and quantitative reasoning skills. Area C of GE focuses on the Arts and Humanities and gives students a chance to explore the Humanities through literature. Area D of GE covers the social sciences and includes the US History and Government requirements.

Area E, Lifelong Learning and Self-Development (LLD), gives students an opportunity to explore themselves and the ways in which they interact with the world around them. These classes can be upper or lower division.

**Overview of General Education at San Francisco State University**

General Education Breadth requirements have been designed to complement the major program and electives completed by each baccalaureate candidate, to assure that graduates have made noteworthy progress toward becoming truly educated persons. These requirements are designed to provide the knowledge, skills, experiences, and perspectives that will enable SF State students to expand their capacities to take part in a wide range of human interests and activities; to confront personal, cultural, moral, and social problems that are an inevitable part of human life; and to cultivate both the requisite skills and enthusiasm for lifelong learning. Courses approved for GE Breadth are responsive to the need for students to have developed knowledge of, or skills related
to, quantitative reasoning, information literacy, intellectual inquiry, global awareness and understanding, human diversity, civic engagement, communication competence, ethical decision-making, environmental systems, technology, lifelong learning and self-development, and physical and emotional health throughout a lifetime.

**General Education Requirements for all Baccalaureate Degrees**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1(^1)</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Humanities</td>
<td>LD</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3(^1)</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3(^1)</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3(^1)</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3(^1)</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3(^1)</td>
<td></td>
</tr>
</tbody>
</table>

These graduation requirements are for first-time freshmen entering SF State Fall 2014 or later. Other students should consult the Division of Undergraduate Education and Academic Planning (http://ueap.sfsu.edu/bacc-regs/GraduationRequirements) for information about their requirements.

**Notes:** LD = Lower Division; UD = Upper Division

1. The unit requirement can be satisfied by either an independent course or a course that is taken in another area of the curriculum (general education, major, minor, elective, etc.). For example, a 3-unit physical science course that includes a 1-unit laboratory component satisfies both the 3-unit physical science requirement and the 1-unit lab science requirement.

**Area A: English Language Communication and Critical Thinking – 12 units**

Students taking courses in fulfillment of A1, A2, and A4 will develop knowledge and understanding of the form, content, context, and effectiveness of communication. Students will develop proficiency in oral and written communication in English, examining communication from the rhetorical perspective and practicing reasoning and advocacy, organization, and accuracy. Students will practice the discovery, critical evaluation, and reporting of information, as well as reading, writing, and listening effectively.

In critical thinking (A3) courses, students will understand logic and its relation to language; elementary inductive and deductive processes, including an understanding of the formal and informal fallacies of language and thought; and the ability to distinguish matters of fact from issues of judgment or opinion. In A3 courses, students will develop the abilities to analyze, criticize, and advocate ideas; to reason inductively and deductively; and to reach well-supported factual or judgmental conclusions.

**Area B: Scientific Inquiry and Quantitative Reasoning – 9 units**

In B1–B3, students develop knowledge of scientific theories, concepts, and data about both living and non-living systems. Students will achieve an understanding and appreciation of scientific principles and the scientific method, as well as the potential limits of scientific endeavors and the value systems and ethics associated with human inquiry. The nature and extent of laboratory experience is to be determined by each campus through its established curricular procedures.

Courses in subarea B4 shall have an explicit Entry Level Math II prerequisite (Intermediate Algebra), and students shall develop skills and understanding beyond the level of intermediate algebra. Students will not just practice computational skills, but will be able to explain and apply basic mathematical concepts and will be able to solve problems through quantitative reasoning.

**Area C: Arts and Humanities – 9 units**

Across the disciplines in their Area C coursework, students will cultivate intellect, imagination, sensibility and sensitivity. Students will respond subjectively as well as objectively to aesthetic experiences and will develop an understanding of the integrity of both emotional and intellectual responses. Students will cultivate and refine their affective, cognitive, and physical faculties through studying great works of the human imagination. Activities may include participation in individual aesthetic, creative experiences; however, Area C excludes courses that exclusively emphasize skills development.

In their intellectual and subjective considerations, students will develop a better understanding of the interrelationship between the self and the
creative arts and of the humanities in a variety of cultures. In subarea C3, students will explore the humanities with a specific focus on literature.

**Area D: Social Sciences – 9 units**

Students learn from courses in multiple Area D disciplines that human social, political and economic institutions and behavior are inextricably interwoven. Through fulfillment of the Area D requirement, students will develop an understanding of problems and issues from the respective disciplinary perspectives and will examine issues in their contemporary as well as historical settings and in a variety of cultural contexts. Students will explore the principles, methodologies, value systems and ethics employed in social scientific inquiry.

The CSU American Institutions requirement (D2 and D3) may be met either by examination (AP, CLEP, or SF State competency exam) or by taking at least one course in subareas D2 and D3.

In U.S. History courses (D2), students learn about the relationships among regions within the area of study and with external regions and states and the role of major ethnic and social groups in such events and the contexts in which the events have occurred, with attention to the multiple heritages of US culture, including Native American peoples and cultures.

The events covered in D2 courses will be presented within a framework which illustrates the continuity of American experience and its derivation from other cultures including consideration of three or more of the following: politics, economics, social movements, and geography. D2 courses will also cover basic American values and ideals, including freedom, equality of opportunity, equality before the law, equality of moral regard for each other and social fairness.

In U.S. and California Government courses (D3), students learn about the political philosophies of the framers of the Constitution and the nature and operation of United States political institutions and processes. Students learn basic concepts in political theory, political structure and process, the legitimacy and authority of the government, and the application of these concepts to understanding the US political system, particularly the roles of law and the Constitution. Students also learn about the rights and obligations of citizens established under the Constitution, in the context of basic American values and ideals.

Students also learn about California government, particularly the constitution of the State of California within the framework of the evolution of Federal-State relations and the nature and processes of State and local government under that Constitution. D2 courses will explore contemporary relationships of State and local government, the resolution of conflicts and the establishment of cooperative processes under the constitutions of both the State and Nation, and the political processes involved.

**Area E: Lifelong Learning and Self-development (LLD)**

Students taking courses in Area E learn content such as human behavior, sexuality, nutrition, physical and mental health, stress management, financial literacy, social relationships and relationships with the environment, as well as implications of death and dying and avenues for lifelong learning. Area E (LLD) courses can be found in both the lower and upper division GE.

**Upper Division General Education**

Upper Division General Education is designed to provide students with the opportunity to integrate and apply the knowledge, skills, and insights gained from their lower division general education courses. All students must complete a total of nine units with one course in each of the following CSU-mandated groupings of domains of knowledge and inquiry:

1. Upper Division Physical and/or Life Sciences (Area UD–B),
2. Upper Division Arts and/or Humanities (Area UD–C), and
3. Upper Division Social Sciences (Area UD–D).

**SF State Studies Requirement**

SF State Studies courses fulfill graduation requirements, but do not have specific unit requirements. They are meant to ensure that students take a least one course in areas that the campus feels are important to graduates of our university. There are currently four graduation requirements that students must meet:

- American Ethnic and Racial Minorities (AERM),
- Environmental Sustainability (ES),
- Global Perspectives (GP) and
- Social Justice (SJ).

Courses certified as meeting the SF State Studies requirements may be upper or lower division, may be in General Education, a major or minor, or an elective. Because of the large number of SF State Studies courses, most students will take more than one SF State Studies course and will not have to seek out such courses.

A detailed listing of all General Education areas and courses begins on General Education Lower Division. You can find specific areas of our GE program by visiting the General Education Table of Contents (p. 82)

**Other Academic Programs**

Certificate programs provide individuals the opportunity to develop specialized skills in areas that may complement majors or minors. These programs focus on a narrow spectrum of knowledge or skills and require fewer units than a major. SF State's College of Extended Learning also offers certificate programs. Students who are pursuing a baccalaureate degree and certificate at the same time are encouraged to complete both programs within 120 units.

Pre-credential programs are offered for students interested in pursuing teaching credentials after completing the baccalaureate degree. Students may complete preparatory course work as an undergraduate student and are encouraged to seek advising from the College of Education's Credential and Graduate Services Center, the Liberal Studies office and/or the Child and Adolescent Development Program.

Pre-professional programs are available for students who are interested in pursuing professional school studies after the baccalaureate degree. For information and referral, consult the Undergraduate Advising Center (http://advising.sfsu.edu).

**Second Baccalaureate Degree**

Subject to restrictions imposed by the CSU Chancellor's Office, in rare instances a student who already holds a bachelor's degree may apply for admission to work toward a second baccalaureate degree. If approved, the student will be admitted to the undergraduate program, typically at the senior level. Check Admissions for programs open to second baccalaureate applications.

Students who have previously earned a baccalaureate or higher degree from an institution accredited by a regional accrediting association will not have to complete any GE or additional graduation requirements.
These students will only be held to completing courses specifically required for the secondary major.

Whether or not the second baccalaureate degree is ever completed, none of the credits earned may later be considered for post-baccalaureate status at this University. The only possible exception is in the last semester before the award of the degree as provided for under the section Courses in Excess of Bachelor Degree Requirements (p. 154).

Undergraduate Education continues in Undergraduate Advising (p. 111).

Undergraduate Graduation Requirements

The following sections include important graduation requirements for undergraduate studies.

Systemwide Placement Test Requirements

The CSU requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms. Students register for the EPT (www.csuenglishsuccess.org/ept) and/or ELM (www.csumathsuccess.org/elm_exam). The campus may establish deadlines by which new students must register for and/or take placement exams as a requirement for enrollment. Questions about test dates and registration materials may be addressed to the Testing Center. (http://testing.sfsu.edu)

Entry Level Mathematics Examination (ELM)

Students who do not have an ELM exemption are required to take the ELM before their first semester of matriculated attendance at SF State.

The Entry Level Mathematics (ELM) Examination is designed to assess and measure the level of mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (Algebra I and II, and Geometry) of students entering the California State University (CSU). The CSU ELM must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including remedial courses. Students who score 50 or above on the ELM will be placed in college-level mathematics classes.

Questions about ELM exemptions should be referred to the Developmental Studies Office (http://developmentalstudies.sfsu.edu).

Test Exemptions

Students who present proof of one of the following qualify for an ELM exemption and will not need to take the ELM test.

Students who are considered “conditionally ready” below based on CAASPP ACT, or SAT scores but who do not successfully complete an approved senior year math course, do not need to test on the ELM. These students are placed automatically into one term of developmental math (ESM 70/MATH 70). These students are required to participate in the Early Start Program. Go to developmentalstudies.sfsu.edu/esp (http://developmentalstudies.sfsu.edu/esp) for more information.

Acceptable ELM Exemption Score/Grade

<table>
<thead>
<tr>
<th>Acceptable ELM Exemption</th>
<th>Score/Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Assessment of Student Performance and Progress (CAASPP), i.e., the CSU Early Assessment Program (EAP), taken in grade 11</td>
<td>Standard Met: Conditionally Ready</td>
</tr>
<tr>
<td>CAASPP i.e., the CSU Early Assessment Program (EAP), plus successful completion of an approved senior year Math course</td>
<td>Standard Met: Conditionally Ready</td>
</tr>
<tr>
<td>NEW SAT mathematics section*</td>
<td>570 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>NEW SAT mathematics section*</td>
<td>520–560: Conditionally Ready</td>
</tr>
<tr>
<td>OLD SAT I mathematics section*</td>
<td>550 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>OLD SAT I mathematics section*</td>
<td>490–540: Conditionally Ready</td>
</tr>
<tr>
<td>SAT Subject Test in Mathematics level 1 or level 2**</td>
<td>550 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>ACT Mathematics Test</td>
<td>23 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>ACT Mathematics Test</td>
<td>20–22: Conditionally Ready</td>
</tr>
<tr>
<td>College Board Advanced Placement Calculus Examination (AB or BC) or Statistics Examination</td>
<td>3 or above</td>
</tr>
<tr>
<td>Completion and transfer of a course that satisfies the General Education Breadth or Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement</td>
<td>Grade of C or better</td>
</tr>
</tbody>
</table>

Exemptions from the ELM are granted only to those who present proof of one of the following:

- A result of Standard Exceeded: “Ready” for CSU or participating CCC college-level coursework in mathematics on the CAASPP Early Assessment Program (EAP) exam.
- A result of Standard Met: “Conditionally Ready” for CSU or participating CCC college-level coursework in mathematics on the CAASPP Early Assessment Program (EAP) exam and met the conditional requirement. The Conditional requirement may be met by completing an approved math course in the 12th grade and earning a grade of “C” or better. Students who do not meet the conditional requirement will need to participate in the CSU’s Early Start Program, unless an exemption was met through one of the following:
  - New SAT: A score between 520–560 on the mathematics section of the new SAT Test*
  - Old SAT: A score between 490–540 on the mathematics section of the old SAT Reasoning Test
  - A score between 20–22 on the mathematics section of the ACT Test
Undergraduate Graduation Requirements

- New SAT: A score of 570 or above on the mathematics section of the new SAT
- Old SAT: A score of 550 or above on the mathematics section of the old SAT Reasoning Test
- SAT Subject Test: A score of 550 or above on the SAT Subject Test in Mathematics (level 1 or level 2)**
- A score of 23 or above on the ACT Mathematics Test
- A score of 3 or above on the College Board Advanced Placement Calculus AB or Calculus BC
- A score of 3 or above on the College Board Advanced Placement Statistics examination
- Completion and transfer to CSU of a college course that satisfies the requirement in Quantitative Reasoning, provided such a course was completed with a grade of “C” or better

* In March 2016, the College Board began administering a new SAT. The new SAT scores are different than the old SAT scores. The CSU will accept both old and new SAT scores for students graduating in 2020 and prior. Students graduating after 2020 will be required to take the new SAT.
**Note: there were no changes to the SAT Subject Tests; therefore, the cut score for the Subject Test in Mathematics (levels 1 or 2) remains the same.

Note: Since March 22, 2002, ELM is scored on a scale of 00–80. A score of 50 or above represents demonstrated entry-level mathematics proficiency. Students scoring 50 or above on the ELM examination are eligible to enroll in a GE Quantitative Reasoning course. Students who score below 50 must complete appropriate developmental mathematics courses before enrolling in a GE Quantitative Reasoning course (see remedial courses below).

Since March 22, 2002, ELM scores have had the following implications:

<table>
<thead>
<tr>
<th>ELM Score</th>
<th>Implications</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 or higher</td>
<td>Students may enroll in a GE Quantitative Reasoning course. Consult an advisor for placement in an appropriate level course.</td>
</tr>
<tr>
<td>42–48</td>
<td>Students must take and complete ESM 70 or MATH 70 (3 units), with a grade of C or better. First-time freshmen, starting in fall, must participate in the Early Start Program during the summer prior to their first term of attendance. See <a href="http://developmentalstudies.sfsu.edu/esp">http://developmentalstudies.sfsu.edu/esp</a>.</td>
</tr>
<tr>
<td>40 and below</td>
<td>Students must take and complete ESM 60 or MATH 60 (3 units), with a grade of C or better. First-time freshmen, starting in fall, must participate in the Early Start Program during the summer prior to their first term of attendance. See <a href="http://developmentalstudies.sfsu.edu/esp">http://developmentalstudies.sfsu.edu/esp</a>. After completing ESM 60 or MATH 60 with a C or better, students must complete MATH 70 with a grade of C or better. Grades and units earned in ESM 60/MATH 60 and ESM 70/MATH 70 are not applied toward the student’s GPA or the number of units required for graduation. However, they do count for financial aid purposes. Students who took the ELM examination prior to March 22, 2002, should contact the Testing Center (<a href="http://testing.sfsu.edu">http://testing.sfsu.edu</a>), for equivalent ELM scores and appropriate placement into courses. Students may also consult the Developmental Studies Office (<a href="http://developmentalstudies.sfsu.edu">http://developmentalstudies.sfsu.edu</a>) for additional ELM information. Newly admitted undergraduate students who score below 50 on the ELM examination must begin developmental math by the first semester of matriculated attendance at SF State. Students starting in fall are required to begin preparation in summer through the Early Start Program. All required developmental course work must be completed within one year from the time of admission to SF State. Students who do NOT complete their developmental mathematics coursework within one year from the time of enrollment are subject to disenrollment from the University. They may return after no more than two consecutive semesters with successful completion of an approved equivalent intermediate algebra course elsewhere. For further information, contact the Developmental Studies Office (<a href="http://developmentalstudies.sfsu.edu">http://developmentalstudies.sfsu.edu</a>). Students who register for a GE Quantitative Reasoning course at SF State must: (<a href="mailto:remedial@sfsu.edu">remedial@sfsu.edu</a>) 1. have received a total score of 50 or above on ELM examination; or (<a href="mailto:remedial@sfsu.edu">remedial@sfsu.edu</a>) 2. have obtained one of the approved ELM exemptions listed above; or (<a href="mailto:remedial@sfsu.edu">remedial@sfsu.edu</a>) 3. have passed (<a href="mailto:remedial@sfsu.edu">remedial@sfsu.edu</a>) ESM 70/MATH 70 with a C or better at SF State, or an equivalent course elsewhere with a grade of credit (CR) or C or better; or 4. after receiving a conditional exemption status from the list above, successfully completed an approved senior year math course with a grade of C or better. Note: there are additional prerequisites for entry into MATH 226.</td>
</tr>
</tbody>
</table>

CSU English Placement Test (EPT)
The English Placement Test (EPT) is designed to assess the level of reading and writing skills of students entering the California State University. The CSU EPT must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including developmental courses. Students who score 147 or above on the EPT will be placed in college-level composition classes and asked to complete DSP (p. 71) to choose appropriate English courses. Students who are considered “conditionally ready” based on CAASPP, ACT, or SAT scores
but who do not successfully complete an approved senior year English course, do not need to test on the EPT. These students are required to participate in the Early Start Program. Go to the Developmental Studies Office Early Start (http://developmentalstudies.sfsu.edu/esp) page for more info.

Exemptions from the EPT are granted only to those who present proof of one of the following:

<table>
<thead>
<tr>
<th>Acceptable EPT Exemptions</th>
<th>Score/Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Assessment of Student Performance and Progress (CAASPP), i.e., the CSU Early Assessment Program (EAP), taken in grade 11</td>
<td>Standard Exceeded: College Ready/Exempt</td>
</tr>
<tr>
<td>CAASPP, i.e., the CSU Early Assessment Program (EAP) taken in grade 11, plus successful completion of an approved senior year English course</td>
<td>Standard Met: Conditionally Ready</td>
</tr>
<tr>
<td>New SAT (EBRW section)*</td>
<td>550 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>New SAT (EBRW section)*</td>
<td>510–540: Conditionally Ready</td>
</tr>
<tr>
<td>Old SAT (critical reading)*</td>
<td>500: College Ready/Exempt</td>
</tr>
<tr>
<td>Old SAT (critical reading)*</td>
<td>460–490: Conditionally Ready</td>
</tr>
<tr>
<td>ACT English Test</td>
<td>22 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>ACT English Test</td>
<td>19–21: Conditionally Ready</td>
</tr>
<tr>
<td>College Board Advanced Placement—English Language and Composition or English Literature and Composition Examination</td>
<td>3 or above</td>
</tr>
</tbody>
</table>

Completion and transfer of a course that satisfies the CSU General Education Breadth or the CSU Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement Grade of C or better

<table>
<thead>
<tr>
<th>Exemptions from the EPT are granted only to those who present proof of one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• A result of Standard Exceeded: “Ready” for CSU or participating CCC college-level coursework in English on the CAASPP Early Assessment Program (EAP) exam.</td>
</tr>
<tr>
<td>• A result of Standard Met: “Conditionally Ready” for CSU or participating CCC college-level coursework in English on the CAASPP Early Assessment Program (EAP) exam and met the conditional requirement. The Conditional requirement may be met by completing an approved English course in the 12th grade and earning a grade of “C” or better. Students who do not meet the conditional requirement will need to participate in the CSU’s Early Start Program, unless an exemption was met through one of the following:</td>
</tr>
<tr>
<td>• New SAT: A score between 510–540 on the Evidenced Based Reading and Writing Section</td>
</tr>
<tr>
<td>• Old SAT: A score between 460–490 on the Critical Reading section of the old SAT Reasoning Test</td>
</tr>
<tr>
<td>• A score of 19–21 on the English section of the ACT Test</td>
</tr>
<tr>
<td>• Old SAT: A score of 550 or above on the Evidenced Based Reading and Writing section*</td>
</tr>
<tr>
<td>• A score of 22 or above on the ACT English Test</td>
</tr>
<tr>
<td>• A score of 3 or above on either the Language and Composition or Composition and Literature examination of the College Board Scholastic Advanced Placement Program</td>
</tr>
<tr>
<td>• Completion and transfer to CSU of the credits for a college course that satisfies the CSU General Education requirement in English Composition, provided such a course was completed with a grade of C or better</td>
</tr>
</tbody>
</table>

* In March 2016, the College Board began administering a new SAT. The new SAT scores are different than the old SAT scores. The CSU will accept both old and new SAT scores for students graduating in 2020 and prior. Students graduating after 2020 will be required to take the new SAT.

Newly admitted undergraduate students who score below 147 on the EPT examination must begin first-year composition by the first semester of matriculated attendance at SF State. Students starting in fall are required to begin preparation in summer through the Early Start Program. All required first-year composition course work must be completed within one year from the time of admission to SF State. Students who do NOT complete designated courses within their first-year composition requirement within one year from the time of enrollment are subject to being disenrolled from the University. They may return after no more than two consecutive semesters with successful completion of an approved equivalent English composition course elsewhere. For further information, contact the Developmental Studies Office (http://developmentalstudies.sfsu.edu) in Administration building room 211.

**Directed Self-Placement**

While all entering undergraduates are required by the CSU to take the English Placement Test (except those with an acceptable exemption), SF State does not use test results to place students into required First-Year Composition classes (these classes are described in the section of the Bulletin “Written English Proficiency Requirements (p. 73)”). San Francisco State University believes that with good guidance from us, the student is the best person to choose which First-Year Composition course is the most appropriate place to begin meeting SF State’s Written English Proficiency Requirement. SF State has designed an online Directed Self-Placement (DSP) (p. 71) application that will guide students through the steps necessary to choose their First-Year Composition Course.

All entering undergraduates are required to complete SF State’s online DSP before they attend new student orientation and before they can enroll in their first-year composition classes. The DSP application can be accessed at dsp.sfsu.edu/ (http://dsp.sfsu.edu/)

Students required to participate in Early Start will complete the online DSP as part of the Early Start English course.

**Early Start Program**

Entering resident freshmen who are not proficient in math or English will need to start the remediation process before their first regular term.

The goals of the Early Start Program (http://developmentalstudies.sfsu.edu/esp) are to

• Better prepare students in math and English, before the fall semester of freshman year
• Add an important and timely assessment tool in preparing students for college
• Improve students’ chances of successful completion of a college degree

California residents admitted to SFSU for a fall semester who meet one or more of the following and have not otherwise demonstrated college readiness are required to participate in the Early Start Program:

• A score of 48 or below on the ELM
• A score of 146 or below on the EPT
• Any student who was categorized as conditionally ready in math and/or English who did not meet conditions (i.e. did not complete an approved senior year, year-long course with a “C” grade or better)

Newly admitted freshman students who are required to complete Early Start will be notified of the requirement and options for completing the program as part of campus communications to newly admitted students. Students enrolled in Early Start English will meet the Directed Self-Placement requirement as part of the Early Start course.

Composition for Multilingual Students Placement Test (CMSPT)
In addition to the CSU English Placement Test (EPT), all non-native speakers of English must take the SF State Composition for Multilingual Students Placement Test (CMSPT) before they can enroll in Composition for Multilingual Students (CMS) courses. Placement in CMS courses is determined by the CMS coordinator solely on the basis of CMSPT scores and not on any course work or tests taken at other institutions.

Written English Proficiency Requirements
All students must demonstrate competency in writing as a requirement for graduation. The following information lists the ways available to meet this graduation requirement.

Summary of Written English Proficiency Requirements
Note: Non-native speakers of English may follow a different course sequence to fulfill their Written English Proficiency Requirements, which are described below in the section titled “Written English Proficiency Requirements for Multilingual Students”.

1. English Placement Test (EPT): All newly-admitted undergraduate students must take the California State University English Placement Test (CSU – EPT) prior to their first semester of matriculated attendance at SF State, except those with an approved EPT exemption listed in the University Bulletin. Non-native speakers of English must also take the Composition for Multilingual Students Placement Test (CMSPT) prior to enrollment. First-time freshmen who were not able to show English proficiency at entry shall attain such proficiency during their initial college year of study at San Francisco State University.

2. First-Year Composition (GE Area A2, Written English Communication I): Two equivalent pathways satisfy the First-Year Composition Requirement:
   a. Stretch ENG 104/ENG 105 or ENG 114.
   b. ENG 114.

3. Second-Year Composition (GE Area A4, Written English Communication II): Prerequisite is a grade of Credit (CR) or C– or better in Stretch ENG 104/ENG 105 or ENG 114 or equivalent course. ENG 214, or an equivalent course, fulfills the Second-Year Composition Requirement.

4. GWAR: Undergraduate students must complete the CSU Graduation Writing Assessment Requirement (GWAR). Prerequisite is a grade of Credit (CR) or C- or better in ENG 214, or equivalent course.

Written English Proficiency Requirements for Native Speakers of English

First Year Composition for Native Speakers (GE Area A2)
All newly-admitted undergraduate students who have not yet met first-year composition, must complete Directed Self-Placement to determine the pathway by which they choose to fulfill the First-Year Composition Requirement.

Two equivalent pathways satisfy the First-Year Composition Requirement for native speakers of English: Stretch ENG 104/ENG 105 or ENG 114. Either pathway satisfies GE Area A2, Written English Communication I. Students enrolling in stretch English take ENG 104 in the fall and ENG 105 in the spring. Students who enter in spring, must take both ENG 104 and ENG 105 concurrently.

Grading in all composition courses will be either ABC/No Credit or Credit/No Credit (CR/NC). A grade of CR or C- or better in ENG 104/ENG 105 or in ENG 114 satisfies the First-Year Composition Requirement. Students who receive credit for these courses will proceed to ENG 214.

Students who receive a grade of NC for ENG 105 must enroll in ENG 114. Students who receive a NC in ENG 104 in the fall term must enroll in both ENG 104 and ENG 105 during the spring term. Students who fail to complete ENG 104 within one year from the time of enrollment are subject to disenrollment from the University. They may return after completing an equivalent to First-Year Composition elsewhere within two consecutive semesters after not meeting this requirement. For more information contact the Developmental Studies Office (http://developmentalstudies.sfsu.edu) in ADM 211. Only those students who can demonstrate one of the following are not required to take First Year Composition at SF State:

1. A score of 3, 4, or 5 on either the English Language and Composition or English Literature and Composition examinations of the College Board Advanced Placement Program.
2. A score of 4 or higher on IB Language A – Language and Literature (HL) – English or IB Language A – Literature (HL) – English.
3. Completion of an equivalent college-level course elsewhere of 3 semester or 4 quarter units with a grade of credit (CR) or C– or better.

Second Year Composition for Native Speakers (GE Area A4)
A GE Area A4 course (e.g. ENG 214) should be taken prior to completion of 60 semester units by all students who have not received credit for an equivalent test or course.

Successful completion of ENG 104 – ENG 105 or ENG 114 is a prerequisite to all Area A4 courses. Area A2 and A4 courses may not be taken concurrently. ABC/NC grading is used in both courses.

Students who have received scores of 3, 4, or 5 on the College Board Advanced Placement Examination in English will receive six units of college credit and satisfy the ENG 114/A2 and ENG 214/A4
requirements. Students who have received scores of 4 or higher on IB Language A – Language and Literature (HL) – English or IB Language A – Literature (HL) – English will also receive six units of college credit and satisfy the ENGL 114/A2 and ENGL 214/A4 requirements.

**Upper Division Written English Proficiency Requirements for Native Speakers**

Undergraduate students must complete the CSU Graduation Writing Assessment Requirement (GWAR). After passing courses in first and second-year composition with a grade of CR or C- or higher, students then are eligible to fulfill GWAR.

Majors require a GWAR-designated course or offer one as an elective in the major. Click GWAR courses ([http://uap.sfsu.edu/wac/approved-courses](http://uap.sfsu.edu/wac/approved-courses)) for an updated list of approved courses by major. Biology majors should consult biology.sfsu.edu/content/gwar([http://biology.sfsu.edu/content/gwar](http://biology.sfsu.edu/content/gwar)). Students should consult with their major department if they are uncertain how their department's GWAR designated course(s) might be used in their major program. All majors have at least one GWAR course, but since the adoption of GWAR courses is ongoing, options for completing GWAR may change. **Note:** students who passed JEPET prior to Fall 2013 have satisfied the GWAR requirement.

**Written English Proficiency Requirements for Multilingual Students**

Non-native speakers of English must take the

- English Placement Test (the CSU EPT) during their first semester of matriculated attendance at SF State.
- Multilingual Students Placement Test (CMSPT) before they can enroll in any Composition for Multilingual Students (CMS) courses.

The CMSPT is an SF State requirement for placement in all CMS English courses. Placement in CMS courses is determined by the CMS coordinator solely on the basis of CMSPT scores, not on the basis of any course work or examinations taken at other colleges or universities. Consult the Testing Center [http://testing.sfsu.edu](http://testing.sfsu.edu) for CMSPT and EPT examination times and dates.

Non-native speakers of English who are eligible to take Composition for Multilingual Students (CMS) courses must complete the sequence of CMS courses listed below as substitutes for the ENG 114 and ENG 214 requirements. In order to enroll in a CMS course, students must first take the SF State Composition for Multilingual Students Placement Test (CMSPT) and receive a qualifying score for that course. A student who satisfactorily completes a CMS course may proceed to the next level CMS course without retaking the CMSPT. Non-native speakers of English may complete the GE Oral Communication requirement by taking ENG 210.

Students on foreign visas and permanent residents may substitute the following courses for the ENG 114 and ENG 214 requirements.

- ENG 209 for ENG 114
- ENG 215 for ENG 214

Majors require a GWAR-designated course or offer one as an elective in the major. Click here ([http://uap.sfsu.edu/wac/approved-courses](http://uap.sfsu.edu/wac/approved-courses)) for an updated list of approved GWAR courses. Biology majors should consult biology.sfsu.edu/content/gwar([http://biology.sfsu.edu/content/gwar](http://biology.sfsu.edu/content/gwar)). Students should consult with their major department if they are uncertain how their department's GWAR designated course(s) might be used in their major program. All majors have at least one GWAR course, but since the adoption of GWAR courses is ongoing, options for completing GWAR may change. **Note:** students who passed JEPET prior to Fall 2013 have satisfied the GWAR requirement.

**U.S. History and Government Requirement**

The California State University (CSU) system requires that all graduates demonstrate an understanding of the historical development of American institutions and ideals, the Constitution of the United States, the operation of representative democratic government under that Constitution, and the processes of California’s state and local governments. Because this is a competency requirement, it may be satisfied by passing examinations, or by taking courses, or by a combination of examinations and courses. In unusual circumstances, students may be able to demonstrate competency in other ways as well.

Transfer students from other California institutions may complete the U.S. History and Government Requirement prior to transfer. Public colleges and universities in California typically cover the entire requirement, often called American Institutions, in two courses in the same way as SF State. However, transfer students from colleges and universities outside of California or from private institutions within California or students who have AP (p. 65) or CLEP (p. 65) credit in U.S. government usually have not studied California government and will therefore need either to pass the California state and local government examination (see below) or to take a course to complete the California State and Local Government component of the U.S. History and Government requirement. Students should consult their Degree Progress Report (DPR) or their Advanced Standing Evaluation (ASE) to verify completion of the entire requirement.

Students who believe that they can demonstrate a proficient understanding of any part of this requirement based on other coursework they have taken or on their experience (e.g., in state and local government) should consult with the Undergraduate Advising Center ([http://advising.sfsu.edu](http://advising.sfsu.edu)). Students starting SF State as first-time college students in Fall 2014 or later, will satisfy this requirement by completion of Areas D2 and D3 of General Education. Transfer students who need to complete the requirement at SF State, should choose from the lists below.

**Satisfying the U.S. History and Government Requirement by Examination**

**Advanced Placement (AP) Examinations**

A score of 3 or higher on the Advanced Placement examination in U.S. history will satisfy the U.S. history requirement. Students who have achieved a score of 3 or higher on the Advanced Placement examination in U.S. Government and Politics will satisfy the U.S. government component of the requirement. For more information, go to the College Board website ([http://www.collegeboard.org](http://www.collegeboard.org)). Satisfactory completion of AP examinations also carries college credit. See Advanced Placement Test Scores (p. 65) page. **No AP examination will satisfy the requirement in California state and local government.**

**College Level Examination Program (CLEP) Examinations**

A passing score (50) on the CLEP exam in either U.S. History I or U.S. History II will satisfy the U.S. history requirement. A passing score (50) on the CLEP exam in American Government will satisfy the U.S. government component of this requirement. For more information, go to the College Board website ([http://www.collegeboard.org](http://www.collegeboard.org)). Satisfactory completion of CLEP examinations will also carry college credit. See College-level
Examination Program Test Scores (p. 65) page. No CLEP examination will satisfy the requirement in California state and local government.

**SF State Equivalency Examination in California State and Local Government**

This requirement may be met by achieving a passing score on an SF State equivalency examination. This examination may be taken only once. For information about this examination and preparation for it, contact the Testing Center (http://testing.sfsu.edu).

Students may submit any combination of examinations and courses to satisfy this requirement.

**Satisfying the U.S. History and Government Requirement by Taking Courses**

Students who begin at SF State as first-time college students will complete the American Institutions requirements by completing Areas D2 and D3 of the General Education program. Transfer students who have completed nine units in Area D but still need to complete the American Institutions requirement, may choose courses in D2 and D3. Please note, there are a few courses that meet all three requirements, and these can be taken by transfer students who have already met all nine units of Area D. Transfer students missing the U.S. History requirement or the U.S. and California Government requirement may also select an upper division course approved as an “Additional US History” or “Additional US and California Government” course (see list below). There are a few courses that can meet all three requirements (see below). Transfer students who need to fulfill ONLY the California Government component of the requirement may take a course from the CSLG list below.

**U.S. History Requirement Courses (USH) Area D2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 210</td>
<td>History of Asians in the United States (D2, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 208</td>
<td>Introduction to African American History (D2, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 150</td>
<td>American Indian History in the United States (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>H ED 241</td>
<td>Health and Social Movements in the United States in the 20th Century (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction (D2)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction (D2)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 130</td>
<td>Survey of U.S. History for Foreign Students (D2)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HIST 278</td>
<td>History of Latinos in the U.S. (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RRS/AIS 103</td>
<td>Introduction to Pacific Studies (D2, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 240</td>
<td>All Power to the People: Comparative Freedom Movements of the &quot;Sixties&quot; (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 150</td>
<td>Women and Gender in U.S. History and Society (D2, AERM, SJ)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional US History Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History (UD-D, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 550</td>
<td>American Indians in Contemporary U.S. History (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>H ED 305</td>
<td>Critical History of Public Health in the United States (SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 418</td>
<td>Society and Politics in American History (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 455</td>
<td>The Philippines and the United States (UD-C, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 465</td>
<td>American Ethnic and Racial Relations II: 1890 - Present (UD-C, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 477</td>
<td>American Mass Culture I: Revolution to Railroad (AERM)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 478</td>
<td>American Mass Culture II: Gilded Age to Digital Age (UD-C, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 484</td>
<td>Disability and Culture in American (UD-C, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 449</td>
<td>American Jewish History (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 506</td>
<td>Survey of Jazz (UD-C, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 559</td>
<td>Women in Jazz (UD-C, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 600/</td>
<td>History of People of Color in the U.S. (UD-D, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 466</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**U.S. and California Government (USG and CSLG) Area D3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 213</td>
<td>Asian Americans and American Ideals and Institutions (D3, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws (D3, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals (D3, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 200</td>
<td>American Politics (D3)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 250</td>
<td>Race, Ethnicity and Power in America (D3, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 160</td>
<td>Gender, Politics, and Citizenship (D3, AERM)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional U.S. and California Government Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
</tbody>
</table>

**California State and Local Government Requirement (CSLG)**

This course satisfies ONLY the California State and Local Government component of the U.S. History and Government requirement. Students whose ASE or degree progress report indicates that they have not met this component of the requirement should either take a US and California Government course from the list above, the examination in state and local government (see Testing Center (http://testing.sfsu.edu) for more information) or the following course to fulfill the California State and Local Government component of this requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 450</td>
<td>History of California (UD-D)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 373</td>
<td>Essentials of California Politics</td>
<td>1</td>
</tr>
<tr>
<td>PLSI 473</td>
<td>California Politics and Government (SJ)</td>
<td>4</td>
</tr>
</tbody>
</table>

Undergraduate Education continues in General Education Lower Division.
Visit our General Education Table of Contents (p. 82) or review the Overview of General Education from the beginning of Undergraduate Education (p. 66).

Undergraduate Graduation Requirements

The following sections include important graduation requirements for undergraduate studies.

Systemwide Placement Test Requirements

The CSU requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college-entry level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms. Students register for the EPT (www.csenglishsuccess.org/ept) and/or ELM (www.csunmathsuccess.org/elm_exam). The campus may establish deadlines by which new students must register for and/or take placement exams as a requirement for enrollment. Questions about test dates and registration materials may be addressed to the Testing Center. (http://testing.sfsu.edu)

Entry Level Mathematics Examination (ELM)

Students who do not have an ELM exemption are required to take the ELM before their first semester of matriculated attendance at SF State.

The Entry Level Mathematics (ELM) Examination is designed to assess and measure the level of mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (Algebra I and II, and Geometry) of students entering the California State University (CSU). The CSU ELM must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including remedial courses. Students who score 50 or above on the ELM will be placed in college-level mathematics classes.

Questions about ELM exemptions should be referred to the Developmental Studies Office (http://developmentalstudies.sfsu.edu).

Test Exemptions

Students who present proof of one of the following qualify for an ELM exemption and will not need to take the ELM test.

Students who are considered “conditionally ready” below based on CAASPP, ACT, or SAT scores but who do not successfully complete an approved senior year math course, do not need to test on the ELM. These students are placed automatically into one term of developmental math (ESM 70/MATH 70). These students are required to participate in the Early Start Program. Go to developmentalstudies.sfsu.edu/esp (http://developmentalstudies.sfsu.edu/esp) for more information.

<table>
<thead>
<tr>
<th>Acceptable ELM Exemption</th>
<th>Score/Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Assessment of Student Performance and Progress (CAASPP), i.e., the CSU Early Assessment Program (EAP), taken in grade 11</td>
<td>Standard Exceeded: College Ready/Exempt</td>
</tr>
<tr>
<td>CAASPP, i.e., the CSU Early Assessment Program (EAP), plus successful completion of an approved senior year Math course</td>
<td>Standard Met: Conditionally Ready</td>
</tr>
<tr>
<td>NEW SAT mathematics section*</td>
<td>570 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>NEW SAT mathematics section*</td>
<td>520–560: Conditionally Ready</td>
</tr>
<tr>
<td>OLD SAT I mathematics section*</td>
<td>550 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>OLD SAT I mathematics section*</td>
<td>490–540: Conditionally Ready</td>
</tr>
<tr>
<td>SAT Subject Test in Mathematics level 1 or level 2**</td>
<td>550 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>ACT Mathematics Test</td>
<td>23 or above: College Ready/Exempt</td>
</tr>
<tr>
<td>ACT Mathematics Test</td>
<td>20–22: Conditionally Ready</td>
</tr>
<tr>
<td>College Board Advanced Placement Calculus Examination (AB or BC) or Statistics Examination</td>
<td>3 or above</td>
</tr>
<tr>
<td>Completion and transfer of a course that satisfies the General Education Breadth or Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement</td>
<td></td>
</tr>
</tbody>
</table>

Exemptions from the ELM are granted only to those who present proof of one of the following:

- A result of Standard Exceeded: “Ready” for CSU or participating CCC college-level coursework in mathematics on the CAASPP Early Assessment Program (EAP) exam.
- A result of Standard Met: “Conditionally Ready” for CSU or participating CCC college-level coursework in mathematics on the CAASPP Early Assessment Program (EAP) exam and met the conditional requirement. The Conditional requirement may be met by completing an approved math course in the 12th grade and earning a grade of “C” or better. Students who do not meet the conditional requirement will need to participate in the CSU’s Early Start Program, unless an exemption was met through one of the following:
  - New SAT: A score between 520–560 on the mathematics section of the new SAT Test*
  - Old SAT: A score between 490–540 on the mathematics section of the old SAT Reasoning Test
  - A score between 20–22 on the mathematics section of the ACT Test

- New SAT: A score of 570 or above on the mathematics section of the new SAT*
- Old SAT: A score of 550 or above on the mathematics section of the old SAT Reasoning Test
- SAT Subject Test: A score of 550 or above on the SAT Subject Test in Mathematics (level 1 or level 2)**
- A score of 23 or above on the ACT Mathematics Test
Undergraduate Graduation Requirements

San Francisco State University Bulletin 2017-2018

- A score of 3 or above on the College Board Advanced Placement Calculus AB or Calculus BC
- A score of 3 or above on the College Board Advanced Placement Statistics examination
- Completion and transfer to CSU of a college course that satisfies the requirement in Quantitative Reasoning, provided such a course was completed with a grade of "C" or better

* In March 2016, the College Board began administering a new SAT. The new SAT scores are different than the old SAT scores. The CSU will accept both old and new SAT scores for students graduating in 2020 and prior. Students graduating after 2020 will be required to take the new SAT.

**Note: there were no changes to the SAT Subject Tests; therefore, the cut score for the Subject Test in Mathematics (levels 1 or 2) remains the same.

Note: Since March 22, 2002, ELM is scored on a scale of 00–80. A score of 50 or above represents demonstrated entry-level mathematics proficiency. Students scoring 50 or above on the ELM examination are eligible to enroll in a GE Quantitative Reasoning course. Students who score below 50 must complete appropriate developmental mathematics courses before enrolling in a GE Quantitative Reasoning course (see remedial courses below).

Since March 22, 2002, ELM scores have had the following implications:

<table>
<thead>
<tr>
<th>ELM Score</th>
<th>Implications</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 or higher</td>
<td>Students may enroll in a GE Quantitative Reasoning course. Consult an adviser for placement in an appropriate level course.</td>
</tr>
<tr>
<td>42–48</td>
<td>Students must take and complete ESM 70 or MATH 70 (3 units), with a grade of C or better. First-time freshmen, starting in fall, must participate in the Early Start Program during the summer prior to their first term of attendance. See <a href="http://developmentalstudies.sfsu.edu/esp">http://developmentalstudies.sfsu.edu/esp</a>.</td>
</tr>
<tr>
<td>40 and below</td>
<td>Students must take and complete ESM 60 or MATH 60 (3 units), with a grade of C or better. First-time freshmen, starting in fall, must participate in the Early Start Program during the summer prior to their first term of attendance. See <a href="http://developmentalstudies.sfsu.edu/esp">http://developmentalstudies.sfsu.edu/esp</a>. After completing ESM 60 or MATH 60 with a C or better, students must complete MATH 70 with a grade of C or better.</td>
</tr>
</tbody>
</table>

Grades and units earned in ESM 60/MATH 60 and ESM 70/MATH 70 are not applied toward the student’s GPA or the number of units required for graduation. However, they do count for financial aid purposes.

Students who took the ELM examination prior to March 22, 2002, should contact the Testing Center (http://testing.sfsu.edu), for equivalent ELM scores and appropriate placement into courses.

Students may also consult the Developmental Studies Office (http://developmentalstudies.sfsu.edu) for additional ELM information.

Newly admitted undergraduate students who score below 50 on the ELM examination must begin developmental math by the first semester of matriculated attendance at SF State. Students starting in fall are required to begin preparation in summer through the Early Start Program. All required developmental course work must be completed within one year from the time of admission to SF State. Students who do NOT complete their developmental mathematics coursework within one year from the time of enrollment are subject to disenrollment from the University. They may return after no more than two consecutive semesters with successful completion of an approved equivalent intermediate algebra course elsewhere. For further information, contact the Developmental Studies Office (http://developmentalstudies.sfsu.edu).

Students who register for a GE Quantitative Reasoning course at SF State must: (remedial@sfsu.edu)

1. have received a total score of 50 or above on ELM examination; or (remedial@sfsu.edu)
2. have obtained one of the approved ELM exemptions listed above; or (remedial@sfsu.edu)
3. have passed (remedial@sfsu.edu) ESM 70/MATH 70 with a C or better at SF State, or an equivalent course elsewhere with a grade of credit (CR) or C or better; or
4. after receiving a conditional exemption status from the list above, successfully completed an approved senior year math course with a grade of C or better.

Note: there are additional prerequisites for entry into MATH 226.

CSU English Placement Test (EPT)

The English Placement Test (EPT) is designed to assess the level of reading and writing skills of students entering the California State University. The CSU EPT must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including developmental courses. Students who score 147 or above on the EPT will be placed in college-level composition classes and asked to complete DSP (p. 71) to choose appropriate English courses. Students who are considered “conditionally ready” based on CAASPP, ACT, or SAT scores but who do not successfully complete an approved senior year English course, do not need to test on the EPT. These students are required to participate in the Early Start Program. Go to the Developmental Studies Office Early Start (http://developmentalstudies.sfsu.edu/esp) page for more info.

Exemptions from the EPT are granted only to those who present proof of one of the following:

<table>
<thead>
<tr>
<th>Acceptable EPT Exemptions</th>
<th>Score/Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Assessment of Student Performance and Progress (CAASPP), i.e., the CSU Early Assessment Program (EAP), taken in grade 11</td>
<td>Standard Exceeded: College Ready/Exempt</td>
</tr>
<tr>
<td>CAASPP i.e., the CSU Early Assessment Program (EAP) taken in grade 11, plus successful completion of an approved senior year English course</td>
<td>Standard Met: Conditionally Ready</td>
</tr>
</tbody>
</table>

77
**New SAT (EBRW section)**
- 550 or above: College Ready/Exempt

**New SAT (EBRW section)**
- 510–540: Conditionally Ready

**Old SAT (critical reading)**
- 500: College Ready/Exempt

**Old SAT (critical reading)**
- 460–490: Conditionally Ready

**ACT English Test**
- 22 or above: College Ready/Exempt

**ACT English Test**
- 19–21: Conditionally Ready

**College Board Advanced Placement—English Language and Composition or English Literature and Composition Examination**
- 3 or above

**Completion and transfer of a course that satisfies the CSU General Education Breadth or the CSU Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement**
- Grade of C or better

### Exemptions from the EPT are granted only to those who present proof of one of the following:

- A result of Standard Exceeded: “Ready” for CSU or participating CCC college-level coursework in English on the CAASPP Early Assessment Program (EAP) exam.

- A result of Standard Met: “Conditionally Ready” for CSU or participating CCC college-level coursework in English on the CAASPP Early Assessment Program (EAP) exam and met the conditional requirement. The Conditional requirement may be met by completing an approved English course in the 12th grade and earning a grade of “C” or better. Students who do not meet the conditional requirement will need to participate in the CSU’s Early Start Program, unless an exemption was met through one of the following:
  - **New SAT:** A score between 510–540 on the Evidenced Based Reading and Writing Section
  - **Old SAT:** A score between 460–490 on the Critical Reading section of the old SAT Reasoning Test
  - A score of 19–21 on the English section of the ACT Test

- New SAT: A score of 550 or above on the Evidenced Based Reading and Writing section*

- Old SAT: A score of 500 or above on the Critical Reading section of the old SAT Reasoning Test

- A score of 22 or above on the ACT English Test

- A score of 3 or above on either the Language and Composition or Composition and Literature examination of the College Board Scholastic Advanced Placement Program

- Completion and transfer to CSU of the credits for a college course that satisfies the CSU General Education requirement in English Composition, provided such a course was completed with a grade of C or better

* In March 2016, the College Board began administering a new SAT. The new SAT scores are different than the old SAT scores. The CSU will accept both old and new SAT scores for students graduating in 2020 and prior. Students graduating after 2020 will be required to take the new SAT.

**Newly admitted undergraduate students who score below 147 on the EPT examination must begin first-year composition by the first semester of matriculated attendance at SF State. Students starting in fall are required to begin preparation in summer through the Early Start Program. All required first-year composition course work must be completed within one year from the time of admission to SF State. Students who do NOT complete designated courses within their first-year composition requirement within one year from the time of enrollment are subject to being disenrolled from the University. They may return after no more than two consecutive semesters with successful completion of an approved equivalent English composition course elsewhere.**

For further information, contact the Developmental Studies Office (http://developmentalstudies.sfsu.edu) in Administration building room 211.

### Directed Self-Placement

While all entering undergraduates are required by the CSU to take the English Placement Test (except those with an acceptable exemption), SF State does not use test results to place students into required First-Year Composition classes (these classes are described in the section of the Bulletin “Written English Proficiency Requirements (p. 73)”). San Francisco State University believes that with good guidance from us, the student is the best person to choose which First-Year Composition course is the most appropriate place to begin meeting SF State’s Written English Proficiency Requirement. SF State has designed an online Directed Self-Placement (DSP) (p. 71) application that will guide students through the steps necessary to choose their First-Year Composition Course.

All entering undergraduates are required to complete SF State’s online DSP before they attend new student orientation and before they can enroll in their first-year composition classes. The DSP application can be accessed at dsp.sfsu.edu/ (http://dsp.sfsu.edu)

Students required to participate in Early Start will complete the online DSP as part of the Early Start English course.

### Early Start Program

- Entering resident freshmen who are not proficient in math or English will need to start the remediation process before their first regular term.

The goals of the Early Start Program (http://developmentalstudies.sfsu.edu/esp) are to

- Better prepare students in math and English, before the fall semester of freshman year
- Add an important and timely assessment tool in preparing students for college
- Improve students’ chances of successful completion of a college degree

California residents admitted to SFSU for a fall semester who meet one or more of the following and have not otherwise demonstrated college readiness are required to participate in the Early Start Program:

- A score of 48 or below on the ELM
- A score of 146 or below on the EPT
- Any student who was categorized as conditionally ready in math and/or English who did not meet conditions (i.e. did not complete an approved senior year, year-long course with a “C” grade or better)

Newly admitted freshman students who are required to complete Early Start will be notified of the requirement and options for completing the program as part of campus communications to newly admitted students. Students enrolled in Early Start English will meet the Directed Self-Placement requirement as part of the Early Start course.
Composition for Multilingual Students Placement Test (CMSPT)
In addition to the CSU English Placement Test (EPT), all non-native speakers of English must take the SF State Composition for Multilingual Students Placement Test (CMSPT) before they can enroll in Composition for Multilingual Students (CMS) courses. Placement in CMS courses is determined by the CMS coordinator solely on the basis of CMSPT scores and not on any course work or tests taken at other institutions.

Written English Proficiency Requirements
All students must demonstrate competency in writing as a requirement for graduation. The following information lists the ways available to meet this graduation requirement.

Summary of Written English Proficiency Requirements
Note: Non-native speakers of English may follow a different course sequence to fulfill their Written English Proficiency Requirements, which are described below in the section titled “Written English Proficiency Requirements for Multilingual Students”.

1. English Placement Test (EPT): All newly-admitted undergraduate students must take the California State University English Placement Test (CSU – EPT) prior to their first semester of matriculated attendance at SF State, except those with an approved EPT exemption listed in the University Bulletin. Non-native speakers of English must also take the Composition for Multilingual Students Placement Test (CMSPT) prior to enrollment. First-time freshmen who were not able to show English proficiency at entry shall attain such proficiency during their initial college year of study at San Francisco State University.

2. First-Year Composition (GE Area A2, Written English Communication I): Two equivalent pathways satisfy the First-Year Composition Requirement:
   a. Stretch ENG 104/ENG 105 or
   b. ENG 114.

3. Second-Year Composition (GE Area A4, Written English Communication II): Prerequisite is a grade of Credit (CR) or C– or better in Stretch ENG 104/ENG 105 or ENG 114 or equivalent course. ENG 214, or an equivalent course, fulfills the Second-Year Composition Requirement.

4. GWAR: Undergraduate students must complete the CSU Graduation Writing Assessment Requirement (GWAR). Prerequisite is a grade of Credit (CR) or C– or better in ENG 214, or equivalent course.

Written English Proficiency Requirements for Native Speakers of English
First Year Composition for Native Speakers (GE Area A2)
All newly-admitted undergraduate students who have not yet met first-year composition, must complete Directed Self-Placement to determine the pathway by which they choose to fulfill the First-Year Composition Requirement.

Two equivalent pathways satisfy the First-Year Composition Requirement for native speakers of English: Stretch ENG 104/ENG 105 or ENG 114. Either pathway satisfies GE Area A2, Written English Communication I. Students enrolling in stretch English take ENG 104 in the fall and ENG 105 in the spring. Students who enter in spring, must take both ENG 104 and ENG 105 concurrently.

Grading in all composition courses will be either ABC/No Credit or Credit/No Credit (CR/NC). A grade of CR or C– or better in ENG 104/ENG 105 or in ENG 114 satisfies the First-Year Composition Requirement. Students who receive credit for these courses will proceed to ENG 214.

Students who receive a grade of NC for ENG 105 must enroll in ENG 114. Students who receive a NC in ENG 104 in the fall term must enroll in both ENG 104 and ENG 105 during the spring term. Students who fail to complete ENG 104 within one year from the time of enrollment are subject to disenrollment from the University. They may return after completing an equivalent to First-Year Composition elsewhere within two consecutive semesters after not meeting this requirement. For more information contact the Developmental Studies Office (http://developmentalstudies.sfsu.edu) in ADM 211. Only those students who can demonstrate one of the following are not required to take First Year Composition at SF State:

1. A score of 3, 4, or 5 on either the English Language and Composition or English Literature and Composition examinations of the College Board Advanced Placement Program.
2. A score of 4 or higher on IB Language A – Language and Literature (HL) – English or IB Language A – Literature (HL) – English.
3. Completion of an equivalent college-level course elsewhere of 3 semester or 4 quarter units with a grade of credit (CR) or C– or better.

Second Year Composition for Native Speakers (GE Area A4)
A GE Area A4 course (e.g. ENG 214) should be taken prior to completion of 60 semester units by all students who have not received credit for an equivalent test or course.

Successful completion of ENG 104 – ENG 105 or ENG 114 is a prerequisite to all Area A4 courses. Area A2 and A4 courses may not be taken concurrently. ABC/NC grading is used in both courses.

Students who have received scores of 3, 4, or 5 on the College Board Advanced Placement Examination in English will receive six units of college credit and satisfy the ENG 114/A2 and ENG 214/A4 requirements. Students who have received scores of 4 or higher on IB Language A – Language and Literature (HL) – English or IB Language A – Literature (HL) – English will also receive six units of college credit and satisfy the ENGL 114/A2 and ENGL 214/A4 requirements.

Upper Division Written English Proficiency Requirements for Native Speakers
Undergraduate students must complete the CSU Graduation Writing Assessment Requirement (GWAR). After passing courses in first and second-year composition with a grade of CR or C– or higher, students then are eligible to fulfill GWAR.

Majors require a GWAR-designated course or offer one as an elective in the major. Click GWAR courses (http://ueap.sfsu.edu/wac/approved-courses) for an updated list of approved courses by major. Biology majors should consult biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar). Students should consult with their major department if they are uncertain how their department’s GWAR designated course(s) might be used in their major program. All majors have at least one GWAR course, but since the adoption of GWAR...
courses is ongoing, options for completing GWAR may change. **Note:** Students who passed JEPET prior to Fall 2013 have satisfied the GWAR requirement.

**Written English Proficiency Requirements for Multilingual Students**

Non-native speakers of English must take the

- English Placement Test (the CSU EPT) during their first semester of matriculated attendance at SF State.
- Multilingual Students Placement Test (CMSPT) before they can enroll in any Composition for Multilingual Students (CMS) courses.

The CMSPT is an SF State requirement for placement in all CMS English courses. Placement in CMS courses is determined by the CMS coordinator solely on the basis of CMSPT scores, not on the basis of any course work or examinations taken at other colleges or universities. Consult the Testing Center (http://testing.sfsu.edu) for CMSPT and EPT examination times and dates.

Non-native speakers of English who are eligible to take Composition for Multilingual Students (CMS) courses must complete the sequence of CMS courses listed below as substitutes for the ENG 114 and ENG 214 requirements. In order to enroll in a CMS course, students must first take the SF State Composition for Multilingual Students Placement Test (CMSPT) and receive a qualifying score for that course. A student who satisfactorily completes a CMS course may proceed to the next level CMS course without retaking the CMSPT. Non-native speakers of English may complete the GE Oral Communication requirement by taking ENG 210.

Students on foreign visas and permanent residents may substitute the following courses for the ENG 114 and ENG 214 requirements.

- ENG 209 for ENG 114
- ENG 215 for ENG 214

Majors require a GWAR-designated course or offer one as an elective in the major. Click here (http://uap.sfsu.edu/wac/approved-courses) for an updated list of approved GWAR courses. Biology majors should consult biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar). Students should consult with their major department if they are uncertain how their department’s GWAR designated course(s) might be used in their major program. All majors have at least one GWAR course, but since the adoption of GWAR courses is ongoing, options for completing GWAR may change. **Note:** students who passed JEPET prior to Fall 2013 have satisfied the GWAR requirement.

**U.S. History and Government Requirement**

The California State University (CSU) system requires that all graduates demonstrate an understanding of the historical development of American institutions and ideals, the Constitution of the United States, the operation of representative democratic government under that Constitution, and the processes of California’s state and local governments. Because this is a competency requirement, it may be satisfied by passing examinations, or by taking courses, or by a combination of examinations and courses. In unusual circumstances, students may be able to demonstrate competency in other ways as well.

Transfer students from other California institutions may complete the U.S. History and Government Requirement prior to transfer. Public colleges and universities in California typically cover the entire requirement, often called American Institutions, in two courses in the same way as SF State. However, transfer students from colleges and universities outside of California or from private institutions within California or students who have AP (p. 65) or CLEP (p. 65) credit in U.S. government usually have not studied California government and will therefore need either to pass the California state and local government examination (see below) or to take a course to complete the California State and Local Government component of the U.S. History and Government requirement. Students should consult their Degree Progress Report (DPR) or their Advanced Standing Evaluation (ASE) to verify completion of the entire requirement.

Students who believe they can demonstrate a proficient understanding of any part of this requirement based on other coursework they have taken or on their experience (e.g., in state and local government) should consult with the Undergraduate Advising Center. (http://advising.sfsu.edu)

Students starting SF State as first-time college students in Fall 2014 or later, will satisfy this requirement by completion of Areas D2 and D3 of General Education. Transfer students who need to complete the requirement at SF State, should choose from the lists below.

**Satisfying the U.S. History and Government Requirement by Examination**

**Advanced Placement (AP) Examinations**

A score of 3 or higher on the Advanced Placement examination in U.S. history will satisfy the U.S. history requirement. Students who have achieved a score of 3 or higher on the Advanced Placement examination in U.S. Government and Politics will satisfy the U.S. government component of the requirement. For more information, go to the College Board website (http://www.collegeboard.org). Satisfactory completion of AP examinations also carries college credit. See Advanced Placement Test Scores (p. 65) page. No AP examination will satisfy the requirement in California state and local government.

**College Level Examination Program (CLEP) Examinations**

A passing score (50) on the CLEP exam in either U.S. History I or U.S. History II will satisfy the U.S. history requirement. A passing score (50) on the CLEP exam in American Government will satisfy the U.S. government component of this requirement. For more information, go to the College Board website (http://www.collegeboard.org). Satisfactory completion of CLEP examinations will also carry college credit. See College-level Examination Program Test Scores (p. 65) page. No CLEP examination will satisfy the requirement in California state and local government.

**SF State Equivalency Examination in California State and Local Government**

This requirement may be met by achieving a passing score on an SF State equivalency examination. This examination may be taken only once. For information about this examination and preparation for it, contact the Testing Center (http://testing.sfsu.edu).

Students may submit any combination of examinations and courses to satisfy this requirement.

**Satisfying the U.S. History and Government Requirement by Taking Courses**

Students who begin at SF State as first-time college students will complete the American Institutions requirements by completing Areas D2 and D3 of the General Education program. Transfer students who have completed nine units in Area D but still need to complete the American Institutions requirement, may choose courses in D2 and D3. Please note, there are a few courses that meet all three requirements, and these can
be taken by transfer students who have already met all nine units of Area D. Transfer students missing the U.S. History requirement or the U.S. and California Government requirement may also select an upper division course approved as an "Additional US History" or "Additional US and California Government" course (see list below). There are a few courses that can meet all three requirements (see below). Transfer students who need to fulfill ONLY the California Government component of the requirement may take a course from the CSLG list below.

**U.S. History Requirement Courses (USH) Area D2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 210</td>
<td>History of Asians in the United States (D2, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 208</td>
<td>Introduction to African American History (D2, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 150</td>
<td>American Indian History in the United States (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>H ED 241</td>
<td>Health and Social Movements in the United States in the 20th Century (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction (D2)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction (D2)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 130</td>
<td>Survey of U.S. History for Foreign Students (D2)</td>
<td>3</td>
</tr>
<tr>
<td>LTNs/HIST 278</td>
<td>History of Latinos in the U.S. (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RRS/AIS 103</td>
<td>Introduction to Pacific Studies (D2, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 240</td>
<td>All Power to the People: Comparative Freedom Movements of the &quot;Sixties&quot; (D2, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 150</td>
<td>Women and Gender in U.S. History and Society (D2, AERM, SJ)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional US History Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History (UD-D, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 550</td>
<td>American Indians in Contemporary U.S. History (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>H ED 305</td>
<td>Critical History of Public Health in the United States (SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 418</td>
<td>Society and Politics in American History (AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 455</td>
<td>The Philippines and the United States (UD-C, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 465</td>
<td>American Ethnic and Racial Relations II: 1890 - Present (UD-C, AERM, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 477</td>
<td>American Mass Culture I: Revolution to Railroad (AERM)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 478</td>
<td>American Mass Culture II: Gilded Age to Digital Age (UD-C, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 484</td>
<td>Disability and Culture in American (UD-C, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>JHS/HIST 449</td>
<td>American Jewish History (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 506</td>
<td>Survey of Jazz (UD-C, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 559</td>
<td>Women in Jazz (UD-C, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 600/</td>
<td>History of People of Color in the U.S. (UD-D, AERM, SJ)</td>
<td>3</td>
</tr>
</tbody>
</table>

**U.S. and California Government (USG and CSLG) Area D3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 213</td>
<td>Asian Americans and American Ideals and Institutions (D3, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws (D3, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals (D3, AERM)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 200</td>
<td>American Politics (D3)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 250</td>
<td>Race, Ethnicity and Power in America (D3, AERM, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 160</td>
<td>Gender, Politics, and Citizenship (D3, AERM)</td>
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**Additional U.S. and California Government Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community (AERM, SJ)</td>
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<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens (AERM, SJ)</td>
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<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877 (UD-C, AERM, SJ)</td>
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<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877 (UD-C, AERM, SJ)</td>
<td>3</td>
</tr>
</tbody>
</table>

**California State and Local Government Requirement (CSLG)**

This course satisfies ONLY the California State and Local Government component of the U.S. History and Government requirement. Students whose ASE or degree progress report indicates that they have not met this component of the requirement should either take a US and California Government course from the list above, the examination in state and local government (see Testing Center (http://testing.sfsu.edu) for more information) or the following course to fulfill the California State and Local Government component of this requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
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<td>Law and the Black Community (AERM, SJ)</td>
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<td>HIST 450</td>
<td>History of California (UD-D)</td>
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<tr>
<td>PLSI 373</td>
<td>Essentials of California Politics</td>
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<td>PLSI 473</td>
<td>California Politics and Government (SJ)</td>
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</table>

Undergraduate Education continues in General Education Lower Division.

Visit our General Education Table of Contents (p. 82) or review the Overview of General Education from the beginning of Undergraduate Education (p. 66).
General Education

Introduction

- Introduction to General Education (p. 67)

Lower Division General Education

- General Education: Area Requirements
- Continuing Students Entering SF State Prior to Fall 2014
- Freshman Students
- Transfer Students
- SF State Studies Requirements
- Area A: English Language Communication and Critical Thinking
- Area B: Scientific Inquiry and Quantitative Reasoning
- Area C: Arts and Humanities
- Area D: Social Sciences
- Area E: Lifelong Learning and Self-development (LLD)

Upper Division General Education

- General Requirements
- Upper Division Physical and/or Life Sciences
- Upper Division Arts and/or Humanities
- Upper Division Social Sciences

Lower Division General Education

For an overview of the SF State General Education program, visit our Introduction to General Education (p. 66).

Please note that although General Education courses are available to students in any major, registration in some sections of specific courses may be restricted to students in the Metro Academies.

Some students come to SF State with high enough AP, CLEP and IB scores to receive college credit. Go to the following link to see what GE requirements are satisfied by these scores. Consult with your major department to see whether any of the credit can count toward your major.

AP – IB – CLEP Test Credit (p. 65)

Students Entering SF State Prior to Fall 2014

Continuing students who were enrolled at SF State prior to Fall 2014 follow the General Education program that was in effect when they came to SF State, with a few modifications. Please visit the Division of Undergraduate Education and Academic Planning (http://ueap.sfsu.edu/bacc-reqs/GraduationRequirements) for more information about your General Education requirements and approved courses.

Freshman Students

Students who begin at SF State as first-time college students in Fall 2014 or later, must complete General Education as outlined below.

Transfer Students

Transfer students who begin at SF State in Fall 2014 or later may complete the 39 units of lower division General Education (GE) requirements (Area A–E), as well as lower division requirements in a major, minor, or certificate program at another campus if those units have been approved through an articulation agreement or an approved evaluation process. Regardless of the number of units a student took to fulfill General Education requirements at other schools, to graduate they must complete a total of 39 units of lower division General Education plus nine units of upper division GE coursework. Any lower division GE coursework not taken in transfer must be taken at SF State from the list of courses below.

- Transfer students who have not completed the equivalent of Written English Communication II will have to do so at SF State. It is a prerequisite to the Graduation Writing Assessment Requirement (GWAR) requirement.
- Transfer students who have completed Area D but who have not completed the US History and Government requirements must do so at SF State (Refer to US History and Government Requirement (http://bulletin.sfsu.edu/undergraduate-education/graduation-requirements/#USHaGR)).
- Transfer students who complete the US History and Government requirements without completing nine units in Area D must take additional Area D courses to total nine units.
- Transfer students must complete nine units of lower division Area C coursework with at least one Area C1 and one Area C2 course, but are not required to take an Area C3 course.
- Transfer students must complete SF State Studies requirements. Most, if not all, of these requirements will be completed while satisfying the Upper Division GE requirements. Students transferring with a verified ADT (AA-T or AS-T degree) who are pursuing a "similar" major do not have to complete the SF State Studies requirements. Click (p. [here](p. )) for more information about procedures and guidelines regarding the Associate Degree for Transfer (ADT).

Area A: English Language Communication and Critical Thinking — 12 units

Students taking courses in fulfillment of Areas A1, A2, and A4 will develop knowledge and understanding of the form, content, context, and effectiveness of communication. Students will develop proficiency in oral and written communication in English, examining communication from the rhetorical perspective and practicing reasoning and advocacy, organization, and accuracy. Students will practice the discovery, critical evaluation, and reporting of information, as well as reading, writing, and listening effectively.

In critical thinking (Area A3) courses, students will understand logic and its relation to language; elementary inductive and deductive processes, including an understanding of the formal and informal fallacies of language and thought; and the ability to distinguish matters of fact from issues of judgment or opinion. In Area A3 courses, students will develop the abilities to analyze, criticize, and advocate ideas; to reason inductively and deductively; and to reach well-supported factual or judgmental conclusions.

Requirements: Students must complete a minimum of twelve units in Area A, including a minimum of three units in each of the following four areas: Oral Communication, Written English Communication I, Critical Thinking, and Written English Communication II. Specific test and course prerequisites are printed in the Undergraduate Graduation Requirements section of the Bulletin. Beginning in Fall 2014, all Area A courses must be completed with a grade of CR or C− or better to fulfill the General Education requirement.
Note: Students transferring from a California community college often satisfy Written English Communication II while satisfying CSU GE Area A3 at their previous campus. If so, no additional units in Area A are required. However, students still are required to have 39 units total of lower division GE. If units are still lacking, these units may be taken in Areas B, C, D, or E.

**Area A1: Oral Communication (3 units required)**
- COMM 150 Fundamentals of Oral Communication (A1) 3
- ENG 210 Oral Communication - Multilingual (A1) 3

**Area A2: Written English Communication I (3 units minimum required)**
- ENG 104 First Year Composition Stretch I 6
- ENG 105 and First Year Composition Stretch II (A2) 3
- ENG 114 First Year Composition (A2) 3
- ENG 209 First Year Composition-Multilingual (A2) 3

**Area A3: Critical Thinking (3 units required)**
- AA S 110 Critical Thinking and the American Experience (A3, AERM) 3
- COUN 110 Critically Thinking about Career Choice: Self, Community, Society, and World (A3, LLD) 3
- ETHS/RRS 110 Critical Thinking and the Ethnic Studies Experience (A3, AERM) 3
- HIST 101 Critical Thinking in History (A3, SJ) 3
- HSS 110 Critical Thinking/Student Success in Health & Social Sciences Fields (A3) 3
- LTNS 110 Critical Thinking in Latina/o Studies (A3, AERM, SJ) 3
- PHIL 110 Introduction to Critical Thinking I (A3) 3
- PSY 111 The Logic and Psychology of Critical Thinking (A3) 3
- RPT 110 Critical Thinking and the Leisure Experience (A3, LLD) 3
- SCI 101 First Year Experience in Science and Engineering (A3, LLD, ES) 3

**Area A4: Written English Communication II (3 units required)**
- AA S 214 Second Year Written Composition: Asian American Studies (A4, AERM, SJ) 3
- AFRS 214 Second Year Written Composition: Africana Studies (A4, AERM, SJ) 3
- CWL 214 Second Year Written Composition: Comparative and World Literature (A4) 3
- ENG 214 Second Year Written Composition: English (A4) 3
- ENG 215 Second Year Composition: Multilingual (A4) 3

**Abbreviations**
- AERM: American Ethnic and Racial Minorities
- ES: Environmental Sustainability
- GP: Global Perspectives
- LLD: Lifelong Learning and Self-Development (Area E)
- SJ: Social Justice

**Area B: Scientific Inquiry and Quantitative Reasoning – 9 units**
In Areas B1 – B3, students develop knowledge of scientific theories, concepts, and data about both living and non-living systems. Students will achieve an understanding and appreciation of scientific principles and the scientific method, as well as the potential limits of scientific endeavors and the value systems and ethics associated with human inquiry.

In Area B4 courses, students shall develop skills and understanding beyond the level of intermediate algebra. Students will not just practice computational skills, but will be able to explain and apply basic mathematical concepts and will be able to solve problems through quantitative reasoning.

**Requirements:** All students must complete a minimum of nine units in Area B including a minimum of three units in each of the following three areas: Physical Science, Life Science, and Quantitative reasoning. Additionally, a course that satisfies the Laboratory Science requirement must also be taken.

Specific test and course prerequisites are printed in the Undergraduate Graduation Requirements section of the Bulletin.

**Note:** Some majors require advanced coursework in Areas B1, B2, and/or B3. For students pursuing these majors, some Area B requirements will be met in major or pre-major coursework. For more information, students should refer to the Bulletin description for their major.

**Area B1: Physical Science (3 units minimum required)**
- ADM 260 Textiles (B1) 3
- ASTR 115 Introduction to Astronomy (B1) 3
- CHEM 101 Survey of Chemistry (B1) 3
- CHEM 180 Chemistry for the Energy and the Environment (B1, B3, ES) 3
- ERTH 110 Our Dynamic Earth (B1, ES) 3
- ERTH 112 Our Dynamic Earth Lecture and Lab (B1, B3, ES) 4
- ERTH 160 Our Dynamic Weather (B1, GP) 3
- ERTH 162 Our Dynamic Weather Lecture and Lab (B1, B3) 3
- ERTH 170 Our Dynamic Ocean (B1, ES) 3
- ERTH 172 Our Dynamic Ocean Lecture and Lab (B1, B3, ES) 4
- ERTH 210 Physical Geology (B1, B3, ES) 4
- ERTH 230 Environmental Geology (B1, B3, ES) 3
- ERTH 260 Physical Processes in the Atmosphere (B1, B3, ES, GP) 4
- GEOG 101 Our Physical Environment (B1, ES) 3
- PHYS 101 Conceptual Physics (B1) 3
- PHYS 111 General Physics I (B1) 3
- PHYS 220 General Physics with Calculus I (B1) 3

**Area B2: Life Science (3 units required)**
- ANTH 100 Introduction to Biological Anthropology (B2) 3
- BIOL 100 Human Biology (B2, LLD, SJ) 3
- BIOL 150 The World of Plants (B2, B3, ES) 3
- BIOL 160 Marine Biology (B2, ES) 3
- BIOL 170 Animal Diversity (B2, ES) 3
- BIOL 176 Science and Politics of Stem Cell Biology (B2, AERM, SJ) 3
- ERTH 115 History of Life (B2, ES) 3
- GEOG 160 Introduction to Environmental Science (B2, B3, ES, GP) 4
- RRS 276 Race, Activism and Climate Justice (B2, AERM, ES, GP, SJ) 3
Area B3: Laboratory Science (0–1 units required)

- ASTR 116 Astronomy Laboratory (B3) 1
- BIOL 101 Human Biology Laboratory (B3) 1
- BIOL 150 The World of Plants (B2, B3, ES) 3
- CHEM 102 Survey of Chemistry Laboratory (B3) 1
- CHEM 180 Chemistry for the Energy and the Environment (B1, B3, ES) 3
- ERTH 111 Our Dynamic Earth Lab (B3) 1
- ERTH 112 Our Dynamic Earth Lecture and Lab (B1, B3, ES) 4
- ERTH 162 Our Dynamic Weather Lecture and Lab (B1, B3) 3
- ERTH 171 Our Dynamic Ocean Lab (B3) 1
- ERTH 172 Our Dynamic Ocean Lecture and Lab (B1, B3, ES) 4
- ERTH 210 Physical Geology (B1, B3, ES) 4
- ERTH 230 Environmental Geology (B1, B3, ES) 3
- ERTH 260 Physical Processes in the Atmosphere (B1, B3, ES, GP) 4
- GEOG 160 Introduction to Environmental Science (B2, B3, ES, GP) 4
- PHYS 102 Conceptual Physics Laboratory (B3) 1
- PHYS 112 General Physics I Laboratory (B3) 1
- PHYS 222 General Physics with Calculus I Laboratory (B3) 1

Area B4: Quantitative Reasoning (3 units required)

Details on test and course prerequisites are listed in the Undergraduate Graduation Requirements section of the Bulletin.

Summary of Quantitative Reasoning Requirements

Students who register for a GE quantitative reasoning course at SF State must have:

1. a score of 50 or higher on the ELM examination; or
2. obtained an approved ELM exemption; or
3. after taking the ELM examination, passed Entry Level Math II (ESM 70/MATH 70) at SF State or an equivalent course elsewhere with a grade of C or better. Beginning in Fall 2014, Area B4 courses must be completed with a grade of CR or C– or better to fulfill the General Education requirement.

- DS 110 Calculus with Business Applications (B4) 3
- GEOG 203 Geographical Measurement (B4) 3
- ISED 160 Data Analysis in Education (B4) 3
- MATH 110 Business Calculus (B4) 3
- MATH 124 Elementary Statistics (B4) 3
- MATH 199 Pre-Calculus (B4) 4
- MATH 226 Calculus I (B4) 4
- PSY 171 Quantitative Reasoning in Psychology (B4) 3

Abbreviations

- AERM: American Ethnic and Racial Minorities
- ES: Environmental Sustainability
- GP: Global Perspectives
- LLD: Lifelong Learning and Self-Development (Area E)
- SJ: Social Justice

Area C: Arts and Humanities — 9 units

In their Area C coursework, students will develop a better understanding of the interrelationship between the self and the creative arts and of the humanities in a variety of cultures. In Area C3, students will explore the humanities with a specific focus on literature.

Requirements: Students starting as freshmen at SF State must complete a minimum of nine units in Area C including a minimum of three units in the areas of Arts (C1) and Humanities: Literature (C3). They must select an additional three units in either Arts (C1) or Humanities (C2).

Students starting as transfers at SF State must complete a minimum of nine units in Area C including a minimum of three units in the areas of Arts (C1) and Humanities (C2). They must select an additional three units in Arts (C1), Humanities (C2), or Humanities: Literature (C3).

Area C1: Arts

- AA 212 Asian Americans and Mass Media (C1, AERM) 3
- AFRS 204 Black Creative Arts (C1, AERM, GP, SJ) 3
- AFRS 221 African American Music: A 20th Century Survey (C1, AERM) 3
- AFRS 230 African American Gospel Workshop (C1, AERM) 3
- AFRS 256 Hip Hop Workshop (C1, LLD, AERM, ES, GP, SJ) 3
- AHS 235 American Indians: Image and Issues in the Mass Media (C1, AERM, SJ) 3
- ART 201 Western Art History I (C1) 3
- ART 202 Western Art History II (C1) 3
- ART/HUM 205 Asian Art History (C1, GP) 3
- ART 235 Printmaking I (C1) 3
- ART 240 Introduction to Contemporary Sculpture (C1) 3
- ART 245 Ceramics I (C1) 3
- BECA 235 Digital Media Basics (C1) 3
- C W 101 Introduction to Creative Writing (C1, LL) 3
- CINE 102 Introduction to Contemporary Cinema (C1, GP) 3
- CLAR 250 Archaeology of the Ancient World (C1, GP) 3
- DES 256 Modern Letterpress Printing: Traditional and Digital Techniques (C1) 3
- DES 256 Design and Society: Contemporary Design Issues and Applications (C1) 3
- H ED/HH 290 Promoting Positive Health (C1, LLD, GP) 3
- ID 240 Color and Design (C1) 3
- ID 245 Contemporary Design in Housing and Interiors (C1) 3
- JOUR 235 Photожournalism I (C1) 3
- M S 202 Introduction to Museum Exhibits (C1) 3
- MUS 120 Basic Music I (C1) 3
- PHIL 160 Introduction to Philosophy of the Arts (C1) 3
- RPT 210 Arts and Crafts for Leisure (C1, LLD) 3
- TH A 130 Acting Workshop I (C1) 3
- TH A 200 Introduction to the Theatre (C1) 3

Area C2: Humanities

- AA 218 Asian American Culture (C2, LLD, AERM, GP, SJ) 3
- ANTH 110 Introduction to Archaeology (C2, GP) 3
- AFRS 266 Black On-line: Cyberspace, Culture, and Community (C2, LLD, AERM, GP, SJ) 3
- ARAB 101 First Semester Arabic (C2, AERM, GP) 5
- ARAB 102 Second Semester Arabic (C2, GP) 5
- ARAB 103 Third Semester Arabic (C2, GP) 5
- ARAB 104 Fourth Semester Arabic (C2, GP) 5
<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ARAB 206</td>
<td>Intermediate Conversation (C2, GP)</td>
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<td>ARAB 260</td>
<td>Arab Culture and Identity in English (C2, GP)</td>
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<tr>
<td>BECA 201</td>
<td>Life on TV: A Critical View (C2, AERM)</td>
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<td>CAD 120</td>
<td>Child Development, Social Justice, and Academic</td>
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<td>First Semester Chinese (C2, GP, SJ)</td>
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<td>Third Semester Chinese (C2, GP, SJ)</td>
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<td>CHIN 111</td>
<td>Accelerated Elementary Chinese I (C2, GP, SJ)</td>
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<td>CHIN 228</td>
<td>Chinese Language and Society (C2, GP)</td>
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<td>CHIN/HUM 271</td>
<td>The Classic Chinese Novel in Contemporary Pop Culture (C2, GP, SJ)</td>
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<td>CLAS 260</td>
<td>Greek and Roman Mythology (C2, GP)</td>
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<td>COMM 120</td>
<td>Language, Culture, and Power (C2, LLD, AERM, SJ)</td>
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<td>Introduction to Group Discussion and Teamwork (C2)</td>
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<td>First Semester French (C2, GP, SJ)</td>
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<td>Intermediate French I (C2, GP, SJ)</td>
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<td>Intermediate French II (C2, GP, SJ)</td>
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<td>GER 101</td>
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<td>GRE 101</td>
<td>Elementary Ancient Greek (C2)</td>
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<td>H ED 120</td>
<td>Educational Justice, Health Equity, and Academic Success (C2, LLD, AERM, GP, SJ)</td>
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<td>HEBR 101</td>
<td>First Semester Modern Hebrew (C2, GP)</td>
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<td>Fourth Semester Modern Hebrew (C2, GP)</td>
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<td>HH 210</td>
<td>The Dao of Well-Being in Chinese Tradition (C2, LLD, AERM)</td>
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<td>HIST 110</td>
<td>History of Western Civilization I (C2, GP)</td>
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<td>History of Western Civilization II (C2, GP)</td>
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<td>HUM 220</td>
<td>Values and Culture (C2, GP)</td>
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<td>HUM 225</td>
<td>Values in American Life (C2, AERM)</td>
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<td>ITAL 100</td>
<td>First Semester Italian for Speakers of English and Spanish (C2, GP)</td>
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<td>JOUR 205</td>
<td>Social Impact of Journalism (C2)</td>
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<td>JS 280</td>
<td>Introduction to Jewish Studies (C2)</td>
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<td>LATN 101</td>
<td>Elementary Latin (C2, GP)</td>
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<td>MEIS 260</td>
<td>Turkish Cultures and Identities (C2, GP)</td>
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<td>MGS 150</td>
<td>Modern Greek I (C2, GP)</td>
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<td>PHIL 105</td>
<td>Introduction to Philosophy and Religion (C2)</td>
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<tr>
<td>PHIL/PLSI 150</td>
<td>Contemporary Moral/Political Issues (C2, SJ)</td>
<td>3</td>
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<tr>
<td>PHIL 210</td>
<td>Great Thinkers: East and West (C2, GP)</td>
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<td>PRSN 100</td>
<td>Summer Immersion Persian (C2, GP, SJ)</td>
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<td>First Semester Persian (C2, GP, SJ)</td>
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<td>Third Semester Persian (C2, GP, SJ)</td>
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<td>PRSN 206</td>
<td>Basic Persian Conversation (C2, GP, SJ)</td>
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<td>PRSN 250</td>
<td>Intermediate Persian (C2, GP, SJ)</td>
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<td>PRSN 260</td>
<td>Persian Culture and Civilization in English (C2, GP, SJ)</td>
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<td>RRS 101</td>
<td>Introduction to Arab and Muslim Communities (C2, AERM, GP, SJ)</td>
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<td>RRS 201</td>
<td>SFSU's Palestinian Cultural Mural and the Art of Resistance (C2, AERM, GP SJ)</td>
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<td>RRS 212</td>
<td>Edward Said (C2, AERM, GP, SJ)</td>
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<td>SPAN 101</td>
<td>First Semester Spanish (C2)</td>
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<tr>
<td>TPW 200</td>
<td>Writing Practices in Professional Contexts (C2)</td>
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**Area C3: Humanities: Literature**

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<tr>
<td>AA S 216</td>
<td>Introduction to Asian American Literature (C3, AERM)</td>
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<td>AFRS 210</td>
<td>Introduction to Africana Literature (C3, AERM, SJ)</td>
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<td>CLAS 210</td>
<td>Introduction to Greek and Roman Literature (C3)</td>
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<td>CLAS 230</td>
<td>Ancient Epic Tales (C3)</td>
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<td>CLAS 240</td>
<td>Greek and Roman Drama (C3, SJ)</td>
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<td>CWL 220</td>
<td>Reading Beyond Boundaries: An Introduction to Comparing Literatures (C3, GP)</td>
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<td>World Literature (C3, GP)</td>
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<td>Fables and Tales (C3, GP)</td>
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<td>Myths of the World (C3, GP)</td>
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<td>Fantasy and Fiction: Exploring Parallel Worlds (C3)</td>
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<td>Literature and Film (C3)</td>
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<td>Shakespeare on Film (C3)</td>
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<td>Heroes and Antiheroes in Literature (C3)</td>
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<td>The Good Life: Literature and the Pursuit of Happiness (C3)</td>
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<td>The Lyric Poem in English (C3)</td>
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<td>Reading Videogames (C3)</td>
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<td>Popular Drama and Social Critique (C3, SJ)</td>
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<td>Introduction to Latina/o Literature (C3, LLD, AERM, GP, SJ)</td>
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<td>Introduction to Turkish Literature in Translation (C3, GP)</td>
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### Area D: Social Sciences − 9 units

Through fulfillment of the Area D requirement, students will develop an understanding of problems and issues from a social science perspective and will examine issues in their contemporary as well as historical settings and in a variety of cultural contexts. Students will explore the principles, methodologies, value systems and ethics employed in social scientific inquiry.

The CSU American Institutions/US History and Government requirement (Areas D2 and D3) may be met either by examination (AP, CLEP or SF State competency exam) or by taking at least one course in both Areas D2 and D3.

In U.S. History courses (Area D2), students will learn about the relationships among regions within the area of study and with external regions and states and the role of major ethnic and social groups in such events and the contexts in which the events have occurred.

In U.S. and California Government courses (Area D3), students will learn about the political philosophies of the framers of the Constitution and the nature and operation of United States political institutions and processes. Students will also learn about California government, particularly the Constitution of the State of California within the framework of evolution of Federal-State relations and the nature and processes of State and local government under that Constitution.

**Requirements:** Students starting as freshmen at SF State must complete a minimum of nine units in Area D including a minimum of three units in each of the following areas: Social Sciences (D1), Social Sciences: US History (D2), and Social Sciences: US and California Government (D3).

Transfer students must complete a minimum of nine units in Area D. These students may transfer in with Area D satisfied without completing the US History and US and California Government requirements. Transfer students who have not met their US History and US and California Government requirements must still complete these requirements by taking courses from Area D2 and D3 (see below) or by selecting courses from the US History and Government Requirement (http://bulletin.sfsu.edu/undergraduate-education/graduation-requirements/#USHaGR).

### Area D1: Social Sciences (3 units required)

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<td>Contemporary Asian Americans (D1, AERM, SJ)</td>
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<td>AFRS 101</td>
<td>Introduction to Africana Studies (D1, AERM, SJ)</td>
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<td>AFRS 111</td>
<td>Black Cultures and Personalities (D1, AERM, SJ)</td>
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<td>AFRS 200</td>
<td>Introduction to Black Psychology (D1, AERM, GP, SJ)</td>
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<td>AFRS 202</td>
<td>Black Men’s Studies (D1, AERM, SJ)</td>
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### Area D2: Social Sciences (3 units required)

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<td>AFRS 215</td>
<td>Introduction to Black Family Studies (D1, LLD, AERM, GP, SJ)</td>
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<td>AFRS 260</td>
<td>Power, Racism and Africana Liberation (D1, AERM, GP, SJ)</td>
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<td>AIS 160</td>
<td>Survey of Native California (D1, AERM, ES, SJ)</td>
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<td>AIS 230</td>
<td>Urban Indians (D1, AERM, SJ)</td>
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<td>ANTH 120</td>
<td>Introductory Social and Cultural Anthropology (D1, SJ)</td>
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<td>CAD 210</td>
<td>Introduction to Applied Child and Adolescent Development (D1)</td>
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<td>Children, Families, and Community: An Ecological Perspective (D1, LLD, AERM, GP, SJ)</td>
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<td>Introduction to Macroeconomic Analysis (D1)</td>
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<td>Teaching and Learning Beyond the Classroom (D1)</td>
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<td>Introduction to Ethnic Studies (D1, AERM, GP, SJ)</td>
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<td>The Human Environment (D1, ES, GP)</td>
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<td>Global Health (D1, LLD, GP, SJ)</td>
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<td>Personal and Social Determinants of Health (D1, LLD, SJ)</td>
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<td>H ED 221</td>
<td>Health and Social Justice - Burning Issues, Taking Action (D1, AERM, SJ)</td>
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<td>HH 200</td>
<td>Holistic Approach to Academic Success (D1, LLD, ES)</td>
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<td>HH 205</td>
<td>Relaxation and Stress Reduction (D1, LLD)</td>
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<td>HIST 114</td>
<td>World History to 1500 (D1, GP)</td>
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<td>World History Since 1500 (D1, GP)</td>
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<td>Introduction to World Affairs (D1, ES, GP, SJ)</td>
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<td>IBUS 130</td>
<td>Globalization and Business in the 21st Century (D1)</td>
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<td>Health-related Fitness and Wellness (D1, LLD, ES, GP, SJ)</td>
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<td>LABR 250</td>
<td>Introduction to the Study of Labor (D1, GP)</td>
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<td>LABR 251</td>
<td>Know Your Work Rights (D1, SJ)</td>
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<td>Latina/o Families Narrative (D1, AERM, GP, SJ)</td>
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<td>Topics in Latina/o History (D1, AERM, SJ)</td>
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<td>Political and Social Philosophy (D1, AERM, SJ)</td>
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<td>Understanding Politics (D1, SJ)</td>
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<td>Capitalism, Socialism, and Democracy Introduction to Political Economy (D1, SJ)</td>
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<td>General Psychology (D1, LLD)</td>
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<td>Enlightened and Sustainable Travel (D1, LLD)</td>
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<td>Leisure and Society (D1, LLD)</td>
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<td>Voices in Exile: Arab and Muslim American and Civil Liberties post-9/11/2001 (D1, AERM, GP, SJ)</td>
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<td>RRS 285</td>
<td>Race, Sports, and Society (D1, AERM)</td>
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<td>Introduction to Teaching and Education (D1)</td>
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<td>SOC 105</td>
<td>Sociological Perspectives (D1)</td>
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<td>SOC/USP 200</td>
<td>Changing Cities (D1, SJ)</td>
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<td>SOC 245</td>
<td>Social Problems (D1, SJ)</td>
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<tr>
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<td>Sexuality in Society (D1, SJ)</td>
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<td>Area D2: Social Sciences: U.S. History (3 units required)</td>
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<td><strong>AA S 210</strong></td>
<td>History of Asians in the United States (D2, AERM, USH)</td>
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<tr>
<td><strong>AFRS 208</strong></td>
<td>Introduction to African American History (D2, AERM, GP, SJ, USH)</td>
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<td>American Indian History in the United States (D2, AERM, SJ, USH)</td>
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<tr>
<td><strong>H ED 241</strong></td>
<td>Health and Social Movements in the United States in the 20th Century (D2, AERM, SJ, USH)</td>
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<td><strong>HIST 120</strong></td>
<td>History of the U.S. through Reconstruction (D2, USH)</td>
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<td><strong>HIST 121</strong></td>
<td>History of the U.S. since Reconstruction (D2, USH)</td>
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<td><strong>HIST 130</strong></td>
<td>Survey of U.S. History for Foreign Students (D2, USH)</td>
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<td><strong>LTNS/HIST 278</strong></td>
<td>History of Latinos in the U.S. (D2, AERM, SJ, USH)</td>
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<td><strong>RRS 103</strong></td>
<td>Introduction to Pacific Studies (D2, AERM, GP, SJ, USH)</td>
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<td><strong>RRS 240</strong></td>
<td>All Power to the People: Comparative Freedom Movements of the &quot;Sixties&quot; (D2, AERM, SJ, USH)</td>
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<td><strong>WGS 150</strong></td>
<td>Women and Gender in U.S. History and Society (D2, AERM, SJ, USH)</td>
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**Abbreviations**

- AERM: American Ethnic and Racial Minorities
- ES: Environmental Sustainability
- GP: Global Perspectives
- LLD: Lifelong Learning and Self-Development (Area E)
- SJ: Social Justice

**Area E: Lifelong Learning and Self-development (LLD)**

Courses in Area E address topics such as human behavior, sexuality, nutrition, physical and mental health, stress management, financial literacy, social relationships and relationships with the environment, as well as implications of death and dying and avenues for lifelong learning.

Courses certified as meeting the Area E requirement are a minimum of three units and may be upper or lower division, in General Education, a major or minor, or an elective. SF State Studies requirements that are met in Area E courses are indicated after the course title.

**Area E: Lifelong Learning and Self-development (LLD)**

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**Abbreviations**

AERM: American Ethnic and Racial Minorities  
ES: Environmental Sustainability  
GP: Global Perspectives  
LLD: Lifelong Learning and Self-Development (Area E)  
SJ: Social Justice

**Upper Division General Education**

**Upper Division General Education — 9 Units Minimum**

**General Requirements**

- Students must:
  1. Begin their upper division General Education coursework no earlier than the semester they will achieve upper division standing and have completed a course in Area A4 with a C– or better. (60 units minimum)
  2. Complete at least nine units of upper division General Education course work in residence at SF State
  3. Complete the equivalent of one three-unit course in each of the three domains of knowledge: Physical/Life Sciences (UD-B), Arts/Humanities (UD-C) and Social Sciences (UD-D).

Students studying abroad through the CSU can petition to have courses taken abroad count for upper division GE. These students should consult
with the Study Abroad Office (http://oip.sfsu.edu/sfstateabroad) and with the Undergraduate Advising Center (http://advising.sfsu.edu) to get assistance in choosing appropriate classes to meet the required domains of knowledge and to complete the petition process upon their return.

**Upper Division Physical and/or Life Sciences: UD—B**

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<td>Asian American Community Health Issues (UD-B, LLD, AERM, SJ)</td>
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<td>ANTH 302</td>
<td>Foundations of Human Variation (UD-B)</td>
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<td>Biology for Today’s World (UD-B, ES)</td>
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<td>Our Endangered Planet (UD-B, LLD, AERM, ES, GP)</td>
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<td>Disease! (UD-B, GP, SJ)</td>
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<td>AIDS: Biology of the Modern Epidemic (UD-B, GP)</td>
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<td>Human Sexuality (UD-B, LLD)</td>
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<td>Bioethics (UD-B, SJ)</td>
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<td>Principles of Food Preparation (UD-B)</td>
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<td>Nutrition for Wellness (UD-B)</td>
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<td>Chemistry Behind Environmental Pollution (UD-B, ES)</td>
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<td>The Violent Earth (UD-B, ES)</td>
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<td>Geology of the National Parks (UD-B, ES)</td>
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<td>California Water (UD-B, ES)</td>
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<td>Global Warming (UD-B, ES, GP)</td>
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<td>California Weather Events (UD-B, ES, GP)</td>
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<td>Contemporary Sexuality (UD-B, LLD, SJ)</td>
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<td>Holistic Health: Western Perspectives (UD-B, LLD, GP)</td>
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<td>Autogenic Training and Embodied Living (UD-B, LLD)</td>
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<td>Herbal and Nutritional Principles in Chinese Healing (UD-B, GP)</td>
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<td>Western Nutrition and Herbs (UD-B, LLD, ES)</td>
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<td>Philosophy of Risk (UD-B, ES)</td>
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<td>Ethical Issues: Science and Technology (UD-B, SJ)</td>
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<td>Minds, Brains and Computers (UD-B)</td>
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<td>Child Development (UD-B, SJ)</td>
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<td>Health and Wellness among Pacific Islanders (UD-B, LLD, SJ)</td>
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**Upper Division Arts and/or Humanities: UD—C**

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<td>Chinese American Language and Literature (UD-C, AERM, SJ)</td>
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<td>Filipina/o American Literature, Art, and Culture (UD-C, AERM, GP, SJ)</td>
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<td>Vietnamese American Literature (UD-C, AERM)</td>
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<td>Cambodians in the United States (UD-C, LLD, AERM, GP, SJ)</td>
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<td>American Indian Film (UD-C, AERM, SJ)</td>
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<td>Modern Creative and Performing Arts (UD-C, AERM, SJ)</td>
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<td>Cross-Cultural Aspects of Sex and Gender (UD-C, SJ)</td>
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<td>Media Literacy in the Electronic Culture (UD-C)</td>
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<td>Ethics at Work: Business Impacts (UD-C)</td>
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<td>Introduction to Environmental Literature (UD-C, ES)</td>
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<td>U.S. Culture and Cinema of the 1950s (UD-C, AERM, SJ)</td>
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**Abbreviations**

AERM: American Ethnic and Racial Minorities  
ES: Environmental Sustainability  
GP: Global Perspectives  
LLD: Lifelong Learning and Self-Development (Area E)  
SJ: Social Justice
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<td>Going Medieval: Comparative Medieval European Literature (UD-C)</td>
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<td>From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts (UD-C, GP)</td>
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<td>&quot;Typical American&quot;: Narratives of Multiculturalism in the Americas from 1492 to the Present (UD-C, GP)</td>
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<td>Literary Crossings (UD-C, GP)</td>
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<td>Ethnology of Dance (UD-C, GP)</td>
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<td>Integrated Arts Curricula in ECE (UD-C, SJ)</td>
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<td>Language and Literacy in Multilingual ECE Settings (UD-C, AERM, GP, SJ)</td>
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<td>Art and Learning (UD-C, LLD, SJ)</td>
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<td>Teaching Language and Literature with Elementary and Middle School Students (UD-C)</td>
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<td>Introduction to Writing Studies (UD-C)</td>
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<td>Introduction to the Study of Language (UD-C, GP)</td>
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<td>Age of Chaucer (UD-C)</td>
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<td>The Age of Wilt (UD-C)</td>
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<td>Literature and Ecology (UD-C, ES)</td>
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<td>Literature and Psychology (UD-C)</td>
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<td>Literature and Society (UD-C, AERM)</td>
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<td>Introduction to Global Peace Studies (UD-C, ES, GP, SJ)</td>
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<td>Art as Healing (UD-C, LLD)</td>
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<td>Comparative History of Love and Sexuality (UD-C, GP, SJ)</td>
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<td>History of Science from the Scientific Revolution (UD-C, ES, GP)</td>
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<td>Archaic and Classical Greece (UD-C, GP)</td>
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<td>The Medieval Mediterranean (UD-C, ES, GP)</td>
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<td>Women in Modern Europe (UD-C, GP, SJ)</td>
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<td>The Philippines and the United States (UD-C, AERM, GP, SJ, UHSH)</td>
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<td>American Ethnic and Racial Relations to1890 (UD-C, AERM, GP, SJ)</td>
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<td>American Ethnic and Racial Relations II: 1890 - Present (UD-C, AERM, GP, SJ, UHSH)</td>
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<td>The U.S. Constitution to 1877 (UD-C, AERM, SJ, UHSH, USG/CS/LG)</td>
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<td>The U.S. Constitution since 1877 (UD-C, AERM, SJ, UHSH, USG/CS/LG)</td>
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<td>American Mass Culture II: Gilded Age to Digital Age (UD-C, AERM, UHSH)</td>
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<td>Disability and Culture in American (UD-C, SJ, UHSH)</td>
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<td>Taiwan: History, Memory, and Imagination (UD-C, GP, ES)</td>
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<td>Tales from Ancient India: Hinduism and Buddhism (UD-C, GP)</td>
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<td>India and the British Empire (UD-C, GP, SJ)</td>
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<td>Asian Food, Culture, and Hospitality (UD-C, AERM)</td>
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<td>Tourism Management (UD-C, AERM, SJ)</td>
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<td>HUM 320/</td>
<td>Music, Ideas, and Culture (UD-C)</td>
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<td>Humanism and Mysticism (UD-C, GP)</td>
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<td>Biography of a City (UD-C, GP)</td>
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<td>San Francisco (UD-C, ES)</td>
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<td>Contemporary Culture (UD-C, GP)</td>
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<td>Nietzsche and Postmodernism (UD-C)</td>
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<td>California Culture (UD-C)</td>
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<td>Humanities of the Americas (UD-C, GP)</td>
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<td>The Arts and American Culture (UD-C, AERM)</td>
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<td>American Images: Photography and Literature (UD-C)</td>
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<td>Islam and the Poetics of Space (UD-C, GP)</td>
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<td>Chinese Civilization (UD-C, GP)</td>
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<td>Images of Modern China (UD-C, GP)</td>
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<td>Digital Pioneers: Creating Innovative Digital Entrepreneurs (UD-C, LLD, AERM)</td>
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<td>Judaism, An Introduction (UD-C, SJ)</td>
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<td>Jewish Social Responsibility (UD-C, SJ)</td>
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<td>Israeli Cinema (UD-C, GP)</td>
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<td>Judaism: Religion and Text (UD-C)</td>
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<td>Holocaust and Literature (UD-C, GP, SJ)</td>
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<td>American Jewish History (UD-C, AERM, SJ, USH)</td>
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<td>Jewish Literature of the Americas (UD-C, AERM, GP)</td>
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<td>Latina/o Studies Creative Writing Workshop (UD-C, AERM, GP)</td>
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<td>Greek American Literature (UD-C, GP, SJ)</td>
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<td>Promoting Young Children’s Social and Emotional Development (UD-D, AERM SJ)</td>
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<td>U.S. Foreign Policy (UD-D, AERM, GP)</td>
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<td>Middle East and North Africa in International Relations (UD-D, ES, GP)</td>
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<td>Israeli Democracy: Politics, Institutions, and Society (UD-D, GP)</td>
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<td>The Arab-Israeli Conflict (UD-D, GP)</td>
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<td>Peak Performance (UD-D, LLD, GP, SJ)</td>
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<td>Social Sciences Core II (UD-D, ES, GP)</td>
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<td>Afro/Latina/o Diasporas (UD-D, AERM, GP)</td>
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<td>Race, Crime, and Justice (UD-D, SJ)</td>
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<td>Central Americans of the U.S.: History and Heritage (UD-D, AERM, GP, SJ)</td>
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<td>Latina/o Immigration to the U.S. (UD-D, AERM, GP, SJ)</td>
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<td>Latina/o Youth, Crime, and Justice (UD-D, SJ)</td>
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<td>Latina/o Politics (UD-D, AERM, GP, SJ)</td>
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<td>Mexican Politics and Society (UD-D, AERM, GP, SJ)</td>
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<td>Foundations in Middle East and Islamic Studies (UD-D, LLD, GP)</td>
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<td>Death and Dying in Contemporary Society (UD-D, LLD)</td>
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<td>Law and Society (UD-D, AERM, SJ)</td>
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<td>Politics, the Environment, and Social Change (UD-D, ES, SJ)</td>
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<td>Politics and Ethics of the Consumer Society (UD-D, ES, SJ)</td>
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<td>Political Theories of Sexuality (UD-D, SJ)</td>
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<td>Politics and the Popular (UD-D, SJ)</td>
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<td>Anarchist Political Theory (UD-D, SJ)</td>
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<td>Black Lives Matter: Race and Social Movements (UD-D, AERM, SJ)</td>
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<td>Sex and Relationships (UD-D, LLD, GP)</td>
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<td>Arab Revolutions and Social Movements (UD-D, GP, SJ)</td>
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<td>Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation (UD-D, AERM, SJ)</td>
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<td>RRS 370</td>
<td>Islamophobia: Roots, Development, and Contestation of Hatred (UD-D, AERM, GP, SJ)</td>
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<td>RRS/SOC 410</td>
<td>Grassroots Organizing for Change in Communities of Color (UD-D, AERM, SJ)</td>
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<td>RRS 420</td>
<td>Arab American Identity: Memory and Resistance (UD-D, AERM, GP, SJ)</td>
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<td>RRS 430</td>
<td>Arab Media Images in America: Impact on Arab Americans (UD-D, AERM, GP, SJ)</td>
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<td>RRS 435</td>
<td>National Security and the Racialization of Arabs and Muslims in North America (UD-D, AERM, GP SJ)</td>
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<td>RRS 480</td>
<td>Youth Culture, Race and Resistance (UD-D, AERM, SJ)</td>
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<td>RRS 600/ HIST 466</td>
<td>History of People of Color in the U.S. (UD-D, AERM, SJ, USH)</td>
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<td>RRS 620</td>
<td>Colonialism, Imperialism and Resistance (UD-D, GP, SJ)</td>
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<td>Mixed Race Studies: A Comparative Focus (UD-D, AERM, SJ)</td>
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<td>Palestine: Ethnic Studies Perspective (UD-D, AERM, GP, SJ)</td>
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<td>RRS 657/ AA S 541</td>
<td>South Asian Diaspora (UD-D, AERM, GP, SJ)</td>
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<td>Education and Society (UD-D, SJ)</td>
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<td>SOC 477</td>
<td>Environmental Sociology (UD-D, ES, GP)</td>
<td>3</td>
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<td>SOC 464</td>
<td>Families and Society (UD-D)</td>
<td>4</td>
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<td>SOC 469</td>
<td>Gender and Society (UD-D)</td>
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<td>SOC 483</td>
<td>Global Sociology (UD-D, GP)</td>
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<td>SPED 310</td>
<td>Exploring Visual Impairments (UD-D, GP, SJ)</td>
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<td>SPED 330</td>
<td>Introduction to Disability (UD-D)</td>
<td>3</td>
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<td>SPED 370</td>
<td>Young Children Disabled or At Risk and Their Families (UD-D)</td>
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<td>SPED 688</td>
<td>American Sign Language I (UD-D)</td>
<td>3</td>
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<td>Variations in Human Sexuality (UD-D, SJ)</td>
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<td>SXS 455</td>
<td>Sex, Power and Politics (UD-D, AERM, SJ)</td>
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<td>Dynamics of the American City (UD-D, SJ)</td>
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<td>USP/PLSI 560</td>
<td>Urban Poverty and Policy (UD-D, SJ)</td>
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<td>Housing Policy and Planning (UD-D, AERM, GP, SJ)</td>
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<td>Women and the Prison Industrial Complex (UD-D, AERM, GP, SJ)</td>
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<td>Gender, Race, and Reproduction (UD-D, AERM, GP)</td>
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<td>WGS 534</td>
<td>Gender and the Law (UD-D, AERM, SJ)</td>
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<td>WGS 536</td>
<td>Gender, Globalization, and Women's Human Rights (UD-D, GP, SJ)</td>
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<td>History of African American Women (UD-D, AERM, SJ)</td>
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<td>WGS 563</td>
<td>Gender, Sexuality, and the Politics of Mobility (UD-D, GP)</td>
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<td>WGS 593</td>
<td>Gender, Health, and the Environment (UD-D, ES, GP)</td>
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<td>WGS 621</td>
<td>Feminist Theories (UD-D, AERM, GP, SJ)</td>
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</table>

**Abbreviations**

AERM: American Ethnic and Racial Minorities  
ES: Environmental Sustainability  
GP: Global Perspectives  
LLD: Lifelong Learning and Self-Development (Area E)  
SJ: Social Justice
SF State Studies

SF State Studies Requirement

SF State Studies courses fulfill graduation requirements but do not have specific unit requirements. They are meant to ensure that students take at least one course in areas that the campus feels are important to graduates of our university. There are currently four graduation requirements that students must meet:

- American Ethnic and Racial Minorities (AERM),
- Environmental Sustainability (ES),
- Global Perspectives (GP), and
- Social Justice (SJ).

Courses certified as meeting the SF State Studies requirements may be upper or lower division, may be in General Education, a major or minor, or may be an elective. Because of the large number of SF State Studies courses, most students will take more than one SF State Studies course, and will not have to seek out such courses.

American Ethnic and Racial Minorities

Courses approved for the SF State Studies American Ethnic and Racial Minorities requirement should: present views of one or more groups of American Ethnic and Racial Minorities both from the perspective of the group and as an integral part of American society; encourage the study of values, attitudes, behaviors and/or creative endeavors that acknowledge and respect the dignity of all groups; and present a thorough analysis of the historical experiences, social stratification processes, political activism, basic cultural patterns, aesthetic experiences and/or ideologies, and include one or more of the oppressed groups of color: African Americans, American Indians, Asian Americans, Pacific Islander Americans, US Latinas/Latinos, South West Asian/North African Americans, and people of mixed racialized heritages.

Courses certified as meeting the SF State Studies requirements may be upper or lower division, may be in General Education (GE), a major or minor, or an elective. Not all of the courses listed below are approved for General Education.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>A U 302</td>
<td>Bay Area Culture (UD-C, AERM, ES, GP)</td>
<td>3</td>
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<td>A U 303/</td>
<td>Bay Area History and Society (UD-D, AERM, SJ)</td>
<td>3</td>
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<td>HIST 451</td>
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<td>Critical Thinking and the Asian American Experience (A3, AERM)</td>
<td>3</td>
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<td>History of Asians in the United States (D2, AERM, USH)</td>
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<td>Contemporary Asian Americans (D1, AERM, SJ)</td>
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<td>Asian Americans and Mass Media (C1, AERM)</td>
<td>3</td>
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<td>Asian Americans and American Ideals and Institutions (D3, AERM, SJ, USG/CSLG)</td>
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<td>Second Year Written Composition: Asian American Studies (A4, AERM, SJ)</td>
<td>3</td>
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<td>Introduction to Asian American Literature (C3, AERM)</td>
<td>3</td>
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<td>Asian American Culture (C2, LL, AERM, GP, SJ)</td>
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<td>Asian Americans of Mixed Heritages (UD-D, LL, AERM, GP, SJ)</td>
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<td>Chinese American Identities (UD-D, LL, AERM, GP, SJ)</td>
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<td>Japanese American Art and Literature (UD-C, LL, AERM, SJ)</td>
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<td>Japanese American Identities (UD-D, AERM)</td>
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<td>Filipina/os in the United States (UD-D, AERM)</td>
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<td>Filipina/o American Literature, Art, and Culture (UD-C, AERM, GP, SJ)</td>
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<td>Vietnamese American Literature (UD-C, AERM)</td>
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<td>Vietnamese American Identities (UD-D, LL, AERM, GP, SJ)</td>
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<td>Asian Americans in California (UD-D, AERM, ES, SJ)</td>
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<td>Asian American Children’s/Adolescent Literature (UD-C, AERM, SJ)</td>
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<td>Asian American Community Arts Workshop (UD-C, AERM)</td>
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<td>AA S 516</td>
<td>Asian American Photographic Explorations (UD-C, AERM)</td>
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<td>South Asians in the United States (UD-C, AERM, GP, SJ)</td>
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<td>Southeast Asians in the United States (UD-D, LL, AERM, GP, SJ)</td>
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<td>Asian American Women (AERM, SJ)</td>
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<td>Asian American Women’s Literature and the Arts (UD-C, AERM, SJ)</td>
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<td>Asian American Sexualities (UD-C, AERM, GP, SJ)</td>
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<td>Asian Americans and Environmental Justice (UD-D, AERM, ES, SJ)</td>
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<td>Asian American Media Workshop (UD-C, AERM)</td>
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<td>Asian American Community Health Issues (UD-B, LL, AERM, SJ)</td>
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<td>Asian American Communities and Public Policy (UD-D, AERM)</td>
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<td>Asian American Community Changes and Development (UD-D, AERM, SJ)</td>
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<td>Introduction to Africana Studies (D1, AERM, SJ)</td>
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<td>Black Cultures and Personalities (D1, AERM, SJ)</td>
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<td>AFRS 200</td>
<td>Introduction to Black Psychology (D1, AERM, GP, SJ)</td>
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<td>Kemet, Afrocentricity, and the Dawn of Science (AERM, GP, SJ)</td>
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<td>Introduction to American Indian Studies (AERM, SJ)</td>
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<td>American Indian History in the United States (D2, AERM, SJ, USH)</td>
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<td>Survey of Native California (D1, AERM, ES, SJ)</td>
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<td>Black Social Sciences (D1, AERM, SJ)</td>
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<td>Black Creative Arts (C1, AERM, GR, SJ)</td>
<td>3</td>
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<td>Introduction to African American History (D2, AERM, GP, SJ, USH)</td>
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<td>Introduction to Africana Literature (C3, AERM, SJ)</td>
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<td>Second Year Written Composition: Africana Studies (A4, AERM, SJ)</td>
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<td>Introduction to Black Family Studies (D1, LLD, AERM, GP, SJ)</td>
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<td>African American Music: A 20th Century Survey (C1, AERM)</td>
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<td>African American Gospel Workshop (C1, AERM)</td>
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<td>Hip Hop Workshop (C1, LLD, AERM, ES, GP, SJ)</td>
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<td>Power, Racism and Africana Liberation (D1, AERM, GP, SJ)</td>
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<td>Black On-line: Cyberspace, Culture, and Community (C2, LLD, AERM, GP, SJ)</td>
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<td>From Africa to Olme: African Ancient Prehistory and History (AERM, GP)</td>
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<td>Black Religion (UD-C, AERM, SJ)</td>
<td>3</td>
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<td>The Black Woman: A Cultural Analysis (LLD, AERM, SJ)</td>
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<td>Health, Medicine, and Nutrition in the Black Community (UD-D, AERM, ES, SJ)</td>
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<td>AIS 375</td>
<td>Law and the Black Community (AERM, SJ, USH, USG/CSLG, CSLG)</td>
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<td>Government, the Constitution, and Black Citizens (AERM, USH, USG/CSLG)</td>
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<td>Black Arts and Humanities (UD-C, AERM, SJ)</td>
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<td>AIS 401</td>
<td>Pan African Black Psychology: A North American, South American and Caribbean Comparison (AERM)</td>
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<td>African Philosophy and Cosmology (UD-D, AERM)</td>
<td>3</td>
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<td>AIS 515</td>
<td>Black Family Studies (UD-D, AERM, ES, SJ)</td>
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<td>Literature of the Harlem Renaissance (UD-C, LLD, AERM, GP, SJ)</td>
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<td>AIS 665</td>
<td>Black Journalism (UD-C, AERM)</td>
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<td>Science and Politics of Stem Cell Biology (B2, AERM)</td>
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<td>BIOL 318</td>
<td>Our Endangered Planet (UD-B, LLD, AERM, ES, GP)</td>
<td>3</td>
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<td>BIOL 332</td>
<td>Health Disparities in Cancer (AERM, GP, SJ)</td>
<td>3</td>
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<td>CAD 120</td>
<td>Child Development, Social Justice, and Academic Success (C2, LLD, AERM, GP, SJ)</td>
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<td>Children, Families, and Community: An Ecological Perspective (D1, LLD, AERM, GP, SJ)</td>
<td>3</td>
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<td>Hollywood Representation of Race and Ethnicity (AERM)</td>
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<td>U.S. Culture and Cinema of the 1950s (UD-C, AERM, SJ)</td>
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<td>COMM 120</td>
<td>Language, Culture, and Power (C2, LLD, AERM, SJ)</td>
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<td>Critical Approaches to Culture and Communication (UD-C, AERM, SJ)</td>
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<td>AIDS and People of Color in the U.S. (UD-D, AERM, SJ)</td>
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<td>AIDS and People of Color in the U.S. (UD-D, AERM, SJ)</td>
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<td>E ED 602</td>
<td>Advanced Curriculum Study in ECE (UD-D, AERM, SJ)</td>
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<td>Promoting Young Children's Social and Emotional Development (UD-D, AERM, SJ)</td>
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<td>E ED 604</td>
<td>Advanced Issues in Collaboration with Families and Communities in ECE (UD-D, AERM, GP, SJ)</td>
<td>3</td>
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<td>E ED 616</td>
<td>Language and Literacy in Multilingual ECE Settings (UD-C, AERM, GP, SJ)</td>
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<td>Economics of Gender (AERM, GP, SJ)</td>
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<td>ENG 526</td>
<td>Age of the American Renaissance: 1830-1860 (UD-C, AERM, SJ)</td>
<td>3</td>
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<td>ENG 602</td>
<td>Literature and Society (UD-C, AERM)</td>
<td>3</td>
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<td>ENG 655</td>
<td>Literature and the Adolescent Reader (AERM)</td>
<td>3</td>
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<td>Introduction to Ethnic Studies (D1, AERM, GP, SJ)</td>
<td>3</td>
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<td>Critical Thinking and the Ethnic Studies Experience (A3, AERM)</td>
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<td>GEOG 455</td>
<td>Geography of Ethnic Communities (AERM, SJ)</td>
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<td>GEOG 552</td>
<td>Geography of California (UD-D, AERM, ES, SJ)</td>
<td>3</td>
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<td>Educational Justice, Health Equity, and Academic Success (C2, LLD, AERM, GP, SJ)</td>
<td>3</td>
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<td>Health and Social Justice - Burning Issues, Taking Action (D1, AERM, SJ)</td>
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<td>Health and Social Movements in the United States in the 20th Century (D2, AERM, SJ, USH)</td>
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<td>Drugs and Society (UD-D, AERM, GP, SJ)</td>
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<td>Women's Health - Problems and Issues (UD-D, AERM, SJ)</td>
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<td>AIDS: Contemporary Health Crisis (UD-D, AERM, GP, SJ)</td>
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<td>Society and Politics in American History (AERM, SJ, USH)</td>
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<td>The Philippines and the United States (UD-C, AERM, GP, SJ, USH)</td>
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<td>American Ethnic and Racial Relations to 1890 (UD-C, AERM, GP, SJ)</td>
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<td>American Ethnic and Racial Relations II: 1890 - Present (UD-C, AERM, GP, SJ, USH)</td>
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<td>Women in U.S.: 1890-Present (UD-D, AERM, SJ)</td>
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<td>The U.S. Constitution to 1877 (UD-C, AERM, SJ, USH, USG/CSLG)</td>
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<td>The U.S. Constitution since 1877 (UD-C, AERM, SJ, USH, USG/CSLG)</td>
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<td>HIST 477</td>
<td>American Mass Culture I: Revolution to Railroad (AERM, USH)</td>
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<td>American Mass Culture II: Gilded Age to Digital Age (UD-C, AERM, USH)</td>
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<td>Values in American Life (C2, AERM)</td>
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<td>U.S. Foreign Policy (UD-D, AERM, GP)</td>
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<td>Muslim Societies in Transnational Perspective (UD-D, AERM, GP)</td>
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<td>Digital Pioneers: Creating Innovative Digital Entrepreneurs (UD-C, LLD, AERM)</td>
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<td>Cultural Diversity and News Media (AERM, SJ)</td>
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<td>American Jewish History (UD-C, AERM, SJ, USH)</td>
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<td>Jewish Literature of the Americas (UD-C, AERM, GP)</td>
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<td>20th Century American Jewish Women Writers (UD-C, AERM, GP)</td>
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<td>Critical Thinking in Latina/o Studies (A3, AERM, SJ)</td>
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<td>Latina/Latino Health Care Perspectives (AERM, ES, GP, SJ)</td>
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<td>Latina/o Families Narrative (D1, AERM, GP, SJ)</td>
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<td>Latina/o Art History (AERM, GP)</td>
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<td>Survey of Latina/o Visual Images (AERM, SJ)</td>
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<td>Introduction to Latina/o Literature (C3, LLD, AERM, GP, SJ)</td>
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<td>Latina/o, U.S. Government, and Constitutional Ideals (D3, AERM, USG/CSLG)</td>
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<td>History of Latinos in the U.S. (D2, AERM, SJ, USH)</td>
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<td>Latina/o Studies Creative Writing Workshop (UD-C, AERM, GP)</td>
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<td>Latina/os in California (AERM, SJ)</td>
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<td>Afro/Latina/o Diasporas (UD-D, AERM, GP)</td>
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<td>Latina/o Cinema (UD-C, AERM, GP, SJ)</td>
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<td>LTNS 425</td>
<td>Popular and Traditional Music of the Latina(o) Diaspora (AERM, GP)</td>
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<td>Gendered Borders: Latinas and Globalization (AERM, GP, SJ)</td>
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<td>Indigenismo: Indigenous Cultures of the Americas (UD-C, AERM, ES, GP)</td>
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<td>Resistance Literature of the Americas (UD-C, AERM, GP, SJ)</td>
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<td>Mexican Politics and Society (UD-D, AERM, GP, SJ)</td>
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<td>MUS 506</td>
<td>Survey of Jazz (UD-C, AERM, USH)</td>
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<td>Jazz and Blues in Film (UD-C, AERM)</td>
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<td>Political and Social Philosophy (D1, AERM, SJ)</td>
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<td>Law and Society (UD-D, AERM, SJ)</td>
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<td>Feminist Moral Issues (UD-C, AERM, GP, SJ)</td>
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<td>The Politics of Immigration in the United States (AERM, SJ)</td>
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<td>Black Lives Matter: Race and Social Movements (UD-D, AERM, SJ)</td>
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<td>Urban Recreation and Parks (UD-D, AERM, SJ)</td>
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<td>RRS 101</td>
<td>Introduction to Arab and Muslim Communities (C2, AERM, GP, SJ)</td>
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<td>RRS 103</td>
<td>Introduction to Pacific Studies (D2, AERM, SJ, USH)</td>
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<td>RRS 201</td>
<td>SFSU's Palestinian Cultural Mural and the Art of Resistance (C2, AERM, GP, SJ)</td>
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<td>RRS 212</td>
<td>Edward Said (C2, AERM, GP, SJ)</td>
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Environmental Sustainability

Courses approved for the SF State Studies Environmental Sustainability requirement must examine some aspect of environmental sustainability. The perspective can be from any area of the university curriculum, such as social sciences, natural sciences, arts, humanities, business, or engineering.

Courses certified as meeting the SF State Studies requirements may be upper or lower division, may be in General Education (GE), a major or minor, or an elective. Not all of the courses listed below are approved for General Education.

A U/GEOG 301 Bay Area Environments (UD-B, ES) 3
A U 302 Bay Area Culture (UD-C, AERM, ES, GP) 3
AA S 510 Asian Americans in California (UD-D, AERM, ES, SJ) 3
AA S 587 Asian Americans and Environmental Justice (UD-D, AERM, ES, SJ) 3
ADM 665 Product Development for Apparel (ES) 3
AFRS 256 Hip Hop Workshop (C1, LLD, AERM, ES, GP, SJ) 3
AFRS 370 Health, Medicine, and Nutrition in the Black Community (UD-D, AERM, ES, SJ) 3
AFRS 515 Black Family Studies (UD-D, AERM, ES, SJ) 3
AIS 160 Survey of Native California (D1, AERM, ES, SJ) 3
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<td>Perspectives of Native California Indians (AERM, ES)</td>
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<td>BIOL 150</td>
<td>The World of Plants (B2, B3, ES)</td>
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<td>BIOL 160</td>
<td>Marine Biology (B2, ES)</td>
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<td>BIOL 170</td>
<td>Animal Diversity (B2, ES)</td>
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<td>BIOL 300</td>
<td>Nature Study (UD-B, ES)</td>
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<td>BIOL 310</td>
<td>Biology for Today’s World (UD-B, ES)</td>
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<td>BIOL 318</td>
<td>Our Endangered Planet (UD-B, LLD, AERM, ES, GP)</td>
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<td>C W 508</td>
<td>Introduction to Environmental Literature (UD-C, ES)</td>
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<td>CFS 543</td>
<td>Sustainability in the Textile, Housing, and Food Industries (UD-D, ES)</td>
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<td>CHEM 180</td>
<td>Chemistry for the Energy and the Environment (B1, B3, ES)</td>
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<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution (UD-B, ES)</td>
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<td>CLAS 420</td>
<td>Classics and the Environment (ES, GP)</td>
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<td>COMM 348GW</td>
<td>Writing About Environmental Rhetoric - GWAR (ES)</td>
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<td>E ED 614</td>
<td>Science, Math, and Technology Curricular in ECE (LLD, ES, SJ)</td>
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<td>Environmental Education in ECE (UD-D, ES)</td>
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<td>ENG 465</td>
<td>Post-Apocalyptic Science Fiction (UD-C, ES)</td>
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<td>Literature and Ecology (UD-C, ES)</td>
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<td>Climate Politics and Policy (ES, GP)</td>
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<td>Applied Local Sustainability (ES)</td>
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<td>Our Dynamic Earth (B1, ES)</td>
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<td>Our Dynamic Earth Lecture and Lab (B1, B3, ES)</td>
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<td>History of Life (B2, ES)</td>
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<td>Physical Processes in the Atmosphere (B1, B3, ES, GP)</td>
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<td>Geology of the National Parks (UD-B, ES)</td>
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<td>California Water (UD-B, ES)</td>
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<td>Global Warming (UD-B, ES, GP)</td>
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<td>California Weather Events (UD-B, ES, GP)</td>
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<td>Extreme Weather in a Warming World (UD-B, ES, GP)</td>
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<td>Our Physical Environment (B1, ES)</td>
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<td>The Human Environment (D1, ES, ES)</td>
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<td>Introduction to Environmental Science (B2, B3, ES, GP)</td>
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<td>Future Environments (UD-D, ES, GP, SJ)</td>
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<td>Agriculture and Food Supply (ES, GP)</td>
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<td>GEOG 430</td>
<td>Transforming Food and Agriculture Systems: Local to Global (ES, GP, SJ)</td>
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<td>Urban Geography (ES, GP)</td>
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<td>Geography of California (UD-D, AERM, ES, SJ)</td>
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<td>Environmental Problems and Solutions (UD-D, ES, GP)</td>
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<td>San Francisco Bay Area Environmental Issues (UD-B, ES)</td>
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<td>GEOG 666</td>
<td>Geography of Garbage: Recycling and Waste Reduction (ES)</td>
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<td>Introduction to Global Peace Studies (UD-C, ES, GP, SJ)</td>
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<td>Public Health Biology (ES)</td>
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<td>Holistic Approach to Academic Success (D1, LLD, ES)</td>
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<td>Western Nutrition and Herbs (UD-B, LLD, ES)</td>
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<td>History of Science from the Scientific Revolution (UD-C, ES, GP)</td>
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<td>The Medieval Mediterranean (UD-C, ES, GP)</td>
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<td>Taiwan: History, Memory, and Imagination (UD-C, ES, GP)</td>
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<td>Food Systems in the Hospitality Environment (ES)</td>
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<td>Meeting Planning and Convention/Event Management I (ES)</td>
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<td>Global Environmental Crisis (ES, GP, SJ)</td>
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<td>Health-related Fitness and Wellness (D1, LLD, ES, GP, SJ)</td>
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<td>Social Sciences Core II (UD-D, ES, GP)</td>
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<td>Future of the Forests (UD-B, ES, GP)</td>
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<td>Latina/Latino Health Care Perspectives (AERM, ES, GP, SJ)</td>
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<td>Indigenismo: Indigenous Cultures of the Americas (UD-C, AERM, ES, GP)</td>
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<td>Philosophy of Risk (UD-B, ES)</td>
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<td>Politics and Ethics of the Consumer Society (UD-D, ES, SJ)</td>
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<td>Parks and Outdoor Recreation Resources (ES)</td>
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<td>Ecotourism Principles and Practices (UD-D, ES, GP, SJ)</td>
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<td>Race, Activism and Climate Justice (B2, AERM, ES, GP, SJ)</td>
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<td>Women, Class, and Race (UD-C, AERM, ES, GP, SJ)</td>
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<td>Comparative Border Studies: Palestine and Mexico (AERM, ES, GP, SJ)</td>
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<td>First Year Experience in Science and Engineering (A3, LLD, ES)</td>
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<td>Environmental Sociology (UD-D, ES, GP)</td>
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<td>The Science of Early Intervention (UD-B, ES, SJ)</td>
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<td>Sustainable Development in Cities (ES, SJ)</td>
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**Global Perspectives**

Courses approved for the SF State Studies Global Perspectives requirement must examine topics that are global in scope (i.e., that involve different parts of the world), and must compare and contrast human experiences and perspectives, whether in the present or the past.

Courses certified as meeting the SF State Studies requirements may be upper or lower division, may be in General Education (GE), a major or minor, or an elective. Not all of the courses listed below are approved for General Education.

Students who study abroad can petition through the Undergraduate Advising Center, (http://advising.sfsu.edu) upon their return, to have the Global Perspectives met.

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<td>Introduction to Black Family Studies (D1, LLD, AERM, GP, SJ)</td>
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<td>Power, Racism and Africana Liberation (D1, AERM, GP, SJ)</td>
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<td>Black On-line: Cyberspace, Culture, and Community (C2, LLD, AERM, GP, SJ)</td>
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<td>From Africa to Olmec America: Ancient African Prehistory and History (AERM, GP)</td>
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<td>Ancient Egypt (GP, SJ)</td>
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<td>The Black Woman: A Cultural Analysis (LLD, AERM, GP, SJ)</td>
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<td>Native Sexualities and Queer Discourse (U-D, AERM, GP, SJ)</td>
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<td>Arab Culture and Identity in English (C2, GP)</td>
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<td>Asian Art History (C1, GP)</td>
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<td>Our Endangered Planet (U-D, LLD, AERM, ES, GP)</td>
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<td>Disease! (U-B, GP, SJ)</td>
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<td>AIDS: Biology of the Modern Epidemic (U-D, GP)</td>
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<td>Health Disparities in Cancer (AERM, GP, SJ)</td>
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<td>Child Development, Social Justice, and Academic Success (C2, LLD, AERM, GP, SJ)</td>
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<td>Children, Families, and Community: An Ecological Perspective (D1, LLD, AERM, GP, SJ)</td>
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<td>Accelerated Elementary Chinese I (C2, GP, SJ)</td>
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<td>Chinese Language and Society (C2, GP)</td>
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<td>CHIN/HUM 271</td>
<td>The Classic Chinese Novel in Contemporary Pop Culture (C2, GP, SJ)</td>
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<td>Conversation and Reading (GP)</td>
<td>3</td>
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<td>Speech and Writing (GP)</td>
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<td>Advanced Chinese (GP)</td>
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<td>CHIN 411/ IR 413/ JOUR 411</td>
<td>Media Chinese (GP)</td>
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<td>Introduction to Classical Chinese (GP)</td>
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CHIN 521 Chinese Modern Fiction (GP) 3
CHIN 601GW The Poetic Tradition - GWAR (GP) 3
CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR (GP) 3
CHIN 612GW Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR (GP) 3
CINE 102 Introduction to Contemporary Cinema (C1, GP) 3
CLAR 250 Archaeology of the Ancient World (C1, GP) 3
CLAS 260 Greek and Roman Mythology (C2, GP) 3
CLAS 420 Classics and the Environment (ES, GP) 3
CWL 220 Reading Beyond Boundaries: An Introduction to Comparing Literatures (C3, GP) 3
CWL 230 World Literature (C3, GP) 3
CWL 250 Fables and Tales (C3, GP) 3
CWL 260 Myths of the World (C3, GP) 3
CWL 422 Imagining the Constructed Body: From Statues to Cyborgs (UD-C, GP) 3
CWL 430 Heroic Tales of the Mediterranean (GP) 3
CWL 432/HUM 532 From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts (UD-C, GP) 3
CWL 440 Typical American: Narratives of Multiculturalism in the Americas from 1492 to the Present (UD-C, GP) 3
CWL 450 Literary Crossings (UD-C, GP) 3
CWL 520 Modern Prose of the Americas (GP) 3
DANC 350 Dance Aesthetics: Cultural/Historical Perspectives (UD-C, GP) 3
DANC/ANTH 657 Ethnology of Dance (UD-C, GP) 3
E ED 604 Advanced Issues in Collaboration with Families and Communities in ECE (UD-D, AERM, GP, SJ) 3
E ED 616 Language and Literacy in Multilingual ECE Settings (UD-C, AERM, GP, SJ) 3
ECON 540 Economics of Gender (AERM, GP, SJ) 3
ECON 612 International Finance and Macroeconomics (GP) 3
ENG 420 Introduction to the Study of Language (UD-C, GP) 3
ENG 565 The Short Story: Global Literature in English (GP) 3
ENG 631 Post-Colonial Literature in English (UD-C, GP) 3
ENV 470 Climate Politics and Policy (ES, GP) 3
ERTH 160 Our Dynamic Weather (B1, GP) 3
ERTH 260 Physical Processes in the Atmosphere (B1, B3, ES, GP) 4
ERTH 335 Global Warming (B1, ES, GP) 3
ERTH 360 California Weather Events (B1, ES, GP) 3
ERTH 365 Extreme Weather in a Warming World (B1, B3, ES, GP) 3
ETHS/RSS 100 Introduction to Ethnic Studies (D1, AERM, GP, SJ) 3
FR 101 First Semester French (C2, GP, SJ) 4
FR 102 Second Semester French (C2, GP, SJ) 4
FR 215 Intermediate French I (C2, GP, SJ) 3
FR 216 Intermediate French II (C2, GP, SJ) 3
FR 301 French Phonetics (GP) 3
FR 305 French Composition (GP) 3
FR 306 Advanced Conversation (GP) 3
FR 400GW French Culture - GWAR (GP) 3
FR 410 Contemporary French Civilization (GP) 3
FR 450 Translating Themes: English/French (GP) 3
FR 500 Introduction to Literary Texts (GP) 3
FR 501 Contes et Poemes (GP) 3
GEOG 102 The Human Environment (D1, ES, GP) 3
GEOG 107 World Regions and Interrelations (D1, GP) 3
GEOG 160 Introduction to Environmental Science (B2, B3, ES, GP) 4
GEOG 421 Future Environments (UD-D, ES, GP, SJ) 3
GEOG 427 Agriculture and Food Supply (ES, GP) 4
GEOG 430 Transforming Food and Agriculture Systems: Local to Global (ES, GP, SJ) 4
GEOG/USP 432 Urban Geography (ES, GP) 4
GEOG/ENVS 600 Environmental Problems and Solutions (UD-D, ES, GP) 3
GER 101 First Semester German (C2, GP) 4
GER 102 Second Semester German (GP) 4
GER 206 Intermediate German Conversation (C2, GP) 3
GER 207 Intermediate German (C2, GP) 3
GER 305 Advanced Grammar and Composition (GP) 3
GER 350GW Translation Workshop - GWAR (GP) 3
GPS/PHIL 315 Introduction to Global Peace Studies (UD-C, ES, GP, SJ) 3
GPS/PHIL 375 Peace Law and Human Rights in the U.S. (UD-D, GP, SJ) 3
H ED 120 Educational Justice, Health Equity, and Academic Success (C2, LLD, AERM, GP, SJ) 3
H ED 200 Global Health (D1, LLD, GP, SJ) 3
H ED/HH 290 Promoting Positive Health (C1, LLD, GP) 3
H ED 315 Drugs and Society (UD-D, AERM, GP, SJ) 3
H ED 417 AIDS: Contemporary Health Crisis (UD-D, AERM, GP, SJ) 3
H ED 455 Community Organizing and Community Building for Health (UD-C, LLD, AERM, ES, GP SJ) 3
HEBR 101 First Semester Modern Hebrew (C2, GP) 3
HEBR 102 Second Semester Modern Hebrew (C2, GP) 3
HEBR 201 Third Semester Modern Hebrew (C2, GP) 3
HEBR 202 Fourth Semester Modern Hebrew (C2, GP) 3
HH 380 Holistic Health: Western Perspectives (UD-B, LLD, GP) 3
HH 381 Holistic Health: Eastern Perspectives (UD-D, LLD, GP) 3
HH 382 Holistic Health: Human Nature and Global Perspectives (UD-C, LLD, GP) 3
HH 420 Chinese Body-Mind Energetics (UD-C, LLD, GP) 3
HH 530 Herbal and Nutritional Principles in Chinese Healing (UD-B, LLD, GP) 3
HH 540 Meditation and Imagery in Healing (UD-D, LLD, GP) 3
HH 545 Imagery and Healing in Tibetan Culture (UD-C, LLD, GP) 3
HH 650 Anthroposophical Health Studies (UD-D, LLD, GP) 3
HH 670 Alternative Health Practices (UD-D, LLD, GP) 3
HIST 110 History of Western Civilization I (C2, GP) 3
HIST 111 History of Western Civilization II (C2, GP) 3
<table>
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<tr>
<td>HIST 114</td>
<td>World History to 1500 (D1, GP)</td>
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<td>HIST 115</td>
<td>World History Since 1500 (D1, GP)</td>
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<td>Comparative History of Love and Sexuality (UD-C, GP, SJ)</td>
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<td>History of Science from the Scientific Revolution (UD-C, ES, GP)</td>
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<td>Archaic and Classical Greece (UD-C, GP)</td>
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<td>The Medieval Mediterranean (UD-C, ES, GP)</td>
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<td>The Reformation (UD-D, GP)</td>
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<td>Europe and the Wider World, 1348-1768 (UD-D, GP, SJ)</td>
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<td>Women in Modern Europe (UD-C, GP, SJ)</td>
<td>3</td>
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<td>HIST 387</td>
<td>The Era of Globalization, 1968-2008 (GP)</td>
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<td>History of Modern European Imperialism (UD-D, GP, SJ)</td>
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<td>The Philippines and the United States (UD-C, AERM, GP, SJ, USH)</td>
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<td>American Ethnic and Racial Relations to 1890 (UD-C, AERM, GP, SJ)</td>
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<td>American Ethnic and Racial Relations II: 1890 - Present (UD-C, AERM, GP, SJ, USH)</td>
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<td>Ancient Chinese Civilization (UD-D, GP)</td>
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<td>Imperial China (UD-D, GP)</td>
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<td>Taiwan: History, Memory, and Imagination (UD-C, ES, GP)</td>
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<td>History of Women in China and Japan (UD-D, GP, SJ)</td>
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<td>Tales from Ancient India: Hinduism and Buddhism (UD-C, GP)</td>
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<td>India and the British Empire (UD-C, GP, SJ)</td>
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<td>India since Gandhi (UD-D, GP, SJ)</td>
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<td>Approaches to the African Past (UD-D, GP)</td>
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<td>Modern Africa (UD-D, GP)</td>
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<td>Gender in African History (UD-D, GP)</td>
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<td>Introduction to Hospitality and Tourism Management (LLD, ES, GP, SJ)</td>
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<td>Information Technology for International Hospitality and Tourism (UD-D, GP)</td>
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<td>The Business of International Tourism (UD-D, GP)</td>
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<td>Advanced Studies in Global Hotel Operations Management (GP)</td>
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<td>Values and Culture (C2, GP)</td>
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<td>Humanism and Mysticism (UD-C, GP)</td>
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<td>Cultural Expression in Islam (GP)</td>
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<td>Biography of a City (UD-C, GP)</td>
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<td>Jerusalem (UD-C, GP)</td>
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<td>Images of Eroticism (UD-C, GP)</td>
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<td>Contemporary Culture (UD-C, GP)</td>
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<td>Humanities of the Americas (UD-C, GP)</td>
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<td>Islam and the Poetics of Space (UD-C, GP)</td>
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<td>Culture of Japan before 1850 (GP)</td>
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<td>Japan and Modernity (GP)</td>
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<td>Introduction to World Affairs (D1, ES, GP, SJ)</td>
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<td>U.S.-Central American Relations (GP)</td>
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<td>U.S. Foreign Policy (UD-D, AERM, GP)</td>
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<td>Latin American Policy Analysis (UD-D, GP)</td>
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<td>Middle East and North Africa in International Relations (UD-D, ES, GP)</td>
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<td>Global Environmental Crisis (ES, GP, SJ)</td>
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<td>Muslim Societies in Transnational Perspective (UD-D, AERM, GP)</td>
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<td>Politics of Globalization (UD-D, GP)</td>
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<td>Women in the World (UD-D, GP, SJ)</td>
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<td>Globalization and Business in the 21st Century (D1, GP)</td>
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<td>Italian Conversation (C2, GP, SJ)</td>
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<td>The Italian Novel (GP)</td>
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<td>Great Figures in Italian Literature (GP)</td>
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<td>Italian Literature on Film in English - GWAR (GP)</td>
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<td>Advanced Readings in Japanese (GP)</td>
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<td>JAPN 510</td>
<td>Modern Japanese Literature (GP)</td>
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<td>JS/CINE 408</td>
<td>Israeli Cinema (UD-C, GP)</td>
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<td>JS/I R/PLSI 430</td>
<td>Israeli Democracy: Politics, Institutions, and Society (UD-D, GP)</td>
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<td>JS/CWL 437/ENG 533</td>
<td>Holocaust and Literature (UD-C, GP, SJ)</td>
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<td>Jewish Literature of the Americas (UD-C, AERM, GP)</td>
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<td>European Jewish Writers (UD-C, GP, SJ)</td>
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<td>JS/HUM/PHIL 501</td>
<td>Judaism, Christianity, and Islam (UD-C, GP)</td>
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<td>JS 540</td>
<td>Anti-Semitism (UD-C, GP, SJ)</td>
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<td>JS/WGS/ENG 546</td>
<td>20th Century American Jewish Women Writers (UD-C, AERM, GP)</td>
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<td>JS 560/R 530</td>
<td>The Arab-Israeli Conflict (UD-C, GP)</td>
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<td>Jewish History I: Beginnings to 1650 (UD-C, GP)</td>
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<td>Jewish History II: 1650 to Present (UD-C, GP)</td>
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<td>Health-related Fitness and Wellness (D1, LLD, ES, GP, SJ)</td>
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<td>Wellness, Fitness and the Global Perspective (LLD, GP)</td>
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<td>Peak Performance (UD-D, LLD, GP, SJ)</td>
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<td>KIN 457</td>
<td>Culture, Gender, and Movement (GP)</td>
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<td>Introduction to the Study of Labor (D1, GP)</td>
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<td>Introduction to Latina/o Literature (C3, LLD, AERM, GP, SJ)</td>
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<td>Popular and Traditional Music of the Latina/o Diaspora (AERM, GP)</td>
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<td>Gendered Borders: Latinas and Globalization (AERM, GR, SJ)</td>
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<td>Mexican Politics and Society (UD-D, AERM, GP, SJ)</td>
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<td>Central American Literature: Roots to the Present (UD-C, GP, SJ)</td>
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<td>Forster, Durrell, and Cavafy (UD-C, GP)</td>
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<td>Philosophy of Research Ethics (UD-C, LLD GP, SJ)</td>
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<td>Human Rights in Global Perspective (UD-C, GP, SJ)</td>
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<td>World Religions (UD-C, GP)</td>
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<td>The Buddhist Tradition (UD-C, GP)</td>
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<td>Chinese Philosophy and Religion (UD-C, GP)</td>
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<td>Cases in Comparative Politics (GP, SJ)</td>
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<td>Persian Culture Through Films in English (UD-C, GP)</td>
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<td>Sex and Relationships (UD-D, LLD, GP)</td>
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<td>Ecotourism Principles and Practices (UD-D, ES, GP, SJ)</td>
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<td>Introduction to Arab and Muslim Communities (C2, AERM, GP, SJ)</td>
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<td>Introduction to Pacific Studies (D2, AERM, GP, SJ, USH)</td>
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<td>Edward Said (C2, AERM, GP, SJ)</td>
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<td>RRS 224</td>
<td>Arab-American History, Community, and Activism (AERM, GP, SJ)</td>
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<td>Voices in Exile: Arab and Muslim American and Civil Liberties post-9/11/2001 (D1, AERM, GP, SJ)</td>
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<td>Introduction to Arab and American Feminisms (GP, SJ)</td>
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**Social Justice**

Courses approved for the SF State Studies Social Justice requirement must address social constructions of identity, hierarchy, power, and privilege; community resistance and empowerment; and social justice. The social constructions may be related to variations among humans, including such factors as abilities, ages, cultures, genders, geographic locations, histories, immigration statuses, languages, national and ethnic identities, racializations, religions, sexualities, socio-economic classes.

Courses certified as meeting the SF State Studies requirements may be upper or lower division, may be in General Education (GE), a major or minor, or an elective. Not all of the courses listed below are approved for General Education.

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<td>Asian American Women (AERM, SJ)</td>
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<td>Kemet, Afrocentricity, and the Dawn of Science (AERM, GP SJ)</td>
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<td>Black Men’s Studies (D1, AERM, SJ)</td>
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<td>Black Creative Arts (C1, AERM, GP, SJ)</td>
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<td>Introduction to African American History (D2, AERM, GP, SJ, USH)</td>
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<td>Introduction to Africana Literature (C3, AERM, SJ)</td>
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<td>Hip Hop Workshop (C1, LLD, AERM, ES, GP, SJ)</td>
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<td>Power, Racism and Africana Liberation (D1, AERM, GP, SJ)</td>
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<td>Black On-line: Cyberspace, Culture, and Community (C2, LLD, AERM, GP, SJ)</td>
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<td>Ancient Egypt (GP, SJ)</td>
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<td>AFRS 326</td>
<td>Black Religion (UD-C, AERM, SJ)</td>
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<td>The Black Woman: A Cultural Analysis (LLD, AERM, GP, SJ)</td>
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<td>Health, Medicine, and Nutrition in the Black Community (UD-D, AERM, ES, SJ)</td>
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<td>Government, the Constitution, and Black Citizens (AERM, SJ, USH, USG/CSSLG)</td>
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<td>Research Methods (UD-D, SJ)</td>
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<td>Survey of Native California (D1, AERM, ES, SJ)</td>
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<td>American Indians and U.S. Laws (D3, AERM, SJ, USG/CSSLG)</td>
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<td>Urban Indians (D1, AERM, SJ)</td>
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<td>American Indians: Image and Issues in the Mass Media (C1, AERM, SJ)</td>
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<td>Transforming Food and Agriculture Systems: Local to Global (ES, GP, SJ)</td>
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<td>Critical Thinking in Latina/o Studies (A3, AERM, SJ)</td>
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<td>Central Americans of the U.S.: History and Heritage (UD-D, AERM, GP, SJ)</td>
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<td>Central American Literature: Roots to the Present (UD-C, GP, SJ)</td>
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<td>PHIL 470</td>
<td>Environmental Ethics (UD-C, ES, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 520</td>
<td>Philosophy and Mysticism (UD-C, LLD, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 100</td>
<td>Understanding Politics (D1, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 106</td>
<td>Capitalism, Socialism, and Democracy: Introduction to Political Economy (D1, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 319</td>
<td>Cases in Comparative Politics (GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 354</td>
<td>Politics, the Environment, and Social Change (UD-D, ES, SJ)</td>
<td>4</td>
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<tr>
<td>PLSI/PHIL 355</td>
<td>Politics and Ethics of the Consumer Society (UD-D, ES, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 381</td>
<td>Political Theories of Sexuality (UD-D, SJ)</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 388</td>
<td>Politics and the Popular (UD-D, SJ)</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 393</td>
<td>Anarchist Political Theory (UD-D, SJ)</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 395</td>
<td>Political Theories of Pedagogy and Community Activism (SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 463</td>
<td>The Politics of Immigration in the United States (AERM, SJ)</td>
<td>4</td>
</tr>
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<td>PLSI/AFRS 466</td>
<td>Black Lives Matter: Race and Social Movements (UD-D, AERM, SJ)</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 473</td>
<td>California Politics and Government (SJ, CSLQ)</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 478</td>
<td>Judicial Process (SJ)</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 552</td>
<td>Individual Rights and the Constitution (SJ)</td>
<td>4</td>
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<td>PRSN 100</td>
<td>Summer Immersion Persian (C2, GP, SJ)</td>
<td>3</td>
</tr>
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<td>PRSN 101</td>
<td>First Semester Persian (C2, GP, SJ)</td>
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<td>Second Semester Persian (C2, GP, SJ)</td>
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<td>Third Semester Persian (C2, GP, SJ)</td>
<td>5</td>
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<tr>
<td>PRSN 206</td>
<td>Basic Persian Conversation (C2, GP, SJ)</td>
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</tr>
<tr>
<td>PRSN 250</td>
<td>Intermediate Persian (C2, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 260</td>
<td>Persian Culture and Civilization in English (C2, GP, SJ)</td>
<td>3</td>
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<tr>
<td>PRSN 290</td>
<td>Introduction to Persian Literature in Translation (C3, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 330</td>
<td>Child Development (UD-B, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 474</td>
<td>Psychology of Social Justice (SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RPT 410</td>
<td>Therapeutic and Inclusive Recreation (SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RPT 440</td>
<td>Urban Recreation and Parks (UD-D, AERM, SJ)</td>
<td>3</td>
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<tr>
<td>RPT 605</td>
<td>Ecotourism Principles and Practices (UD-D, ES, GP, SJ)</td>
<td>3</td>
</tr>
<tr>
<td>RRS 101</td>
<td>Introduction to Arab and Muslim Communities (C2, AERM, GP, SJ)</td>
<td>3</td>
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107
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<tr>
<td>RRS 103</td>
<td>Introduction to Pacific Studies (D2, AERM, GP, SJ, USH)</td>
<td>RRS 201</td>
<td>SFSU's Palestinian Cultural Mural and the Art of Resistance (C2, AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 201</td>
<td>Edward Said (C2, AERM, GP, SJ)</td>
<td>RRS 212</td>
<td>Arab-American History, Community, and Activism (AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 224</td>
<td>Muslims in America: Communities and Institutions (AERM, SJ)</td>
<td>RRS 230</td>
<td>All Power to the People: Comparative Freedom Movements of the &quot;Sixties&quot; (D2, AERM, SJ, USH)</td>
</tr>
<tr>
<td>RRS 240</td>
<td>Race, Ethnicity and Power in America (D3, AERM, SJ, USG/CSLS)</td>
<td>RRS 250</td>
<td>Voices in Exile: Arab and Muslim American and Civil Liberties post-9/11/2001 (D1, AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 255</td>
<td>Introduction to Arab and American Feminisms (GP, SJ)</td>
<td>RRS 260</td>
<td>Race, Activism and Climate Justice (B2, AERM, ES, GP, SJ)</td>
</tr>
<tr>
<td>RRS 276</td>
<td>Health and Wellness among Pacific Islanders (UD-B, LLD, SJ)</td>
<td>RRS 303</td>
<td>Arab Revolutions and Social Movements (UD-D, GP, SJ)</td>
</tr>
<tr>
<td>RRS 310</td>
<td>Arab American Literary Expressions (AERM, GR, SJ)</td>
<td>RRS ARAB 312</td>
<td>Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation (UD-D, AERM, SJ)</td>
</tr>
<tr>
<td>RRS/SOC 330</td>
<td>Complexities of Community: Class, Gender, and Nation (UD-D, AERM, SJ)</td>
<td>RRS 370</td>
<td>Islamophobia: Roots, Development, and Contestation of Hatred (UD-D, AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 375</td>
<td>Queer Arabs in the U.S. (SJ)</td>
<td>RRS/SXS 380</td>
<td>Coloring Queer: Imagining Communities (UD-C, AERM, SJ)</td>
</tr>
<tr>
<td>RRS/SOC 410</td>
<td>Grassroots Organizing for Change in Communities of Color (UD-D, AERM, SJ)</td>
<td>RRS 420</td>
<td>Arab American Identity: Memory and Resistance (UD-D, AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 430</td>
<td>Arab Media Images in America: Impact on Arab Americans (UD-D, AERM, GP, SJ)</td>
<td>RRS 435</td>
<td>National Security and the Racialization of Arabs and Muslims in North America (UD-D, AERM, GP, SJ)</td>
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<td>RRS 480</td>
<td>Youth Culture, Race and Resistance (UD-D, AERM, SJ)</td>
<td>RRS 513</td>
<td>Gender, War, and Militarism (UD-C, GP, SJ)</td>
</tr>
<tr>
<td>RRS 571</td>
<td>Women, Class, and Race (UD-C, AERM, ES, GP, SJ)</td>
<td>RRS 514</td>
<td>Women and the Prison Industrial Complex (UD-D, AERM, GP, SJ)</td>
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<td>RRS 600/</td>
<td>History of People of Color in the U.S. (UD-D, AERM, SJ, USH)</td>
<td>RRS 534</td>
<td>Gender and the Law (UD-D, AERM, SJ)</td>
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<td>HIST 466</td>
<td>Colonialism, Imperialism and Resistance (UD-D, GP, SJ)</td>
<td>RRS 536</td>
<td>Gender, Globalization, and Women's Human Rights (UD-D, GP, SJ)</td>
</tr>
<tr>
<td>RRS 620</td>
<td>Mixed Race Studies: A Comparative Focus (UD-D, AERM, SJ)</td>
<td>RRS 541</td>
<td>Women Writers and Social Change (UD-C, AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 625</td>
<td>Palestine: Ethnic Studies Perspective (UD-D, AERM, GP, SJ)</td>
<td>RRS 552</td>
<td>Transgender Identities and Communities (AERM, GP, SJ)</td>
</tr>
<tr>
<td>RRS 630</td>
<td>Comparative Border Studies: Palestine and Mexico (AERM, ES, GP, SJ)</td>
<td>RRS 556</td>
<td>Women, Ethnicity, and Social Movements (AERM, SJ)</td>
</tr>
<tr>
<td>RRS 655</td>
<td>South Asian Diaspora (UD-D, AERM, GP, SJ)</td>
<td>RRS 562</td>
<td>History of African American Women (UD-D, AERM, SJ)</td>
</tr>
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<td>RRS 657/</td>
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<td>RRS 566</td>
<td>Gender and Modernity in the Muslim and Arab Worlds (AERM, GP, SJ)</td>
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<td>AA S 541</td>
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<td>WGS 621</td>
<td>Feminist Theories (UD-D, AERM, GP, SJ)</td>
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**Abbreviations**

AERM: American Ethnic and Racial Minorities  
ES: Environmental Sustainability  
GP: Global Perspectives
LLD: Lifelong Learning and Self-Development (Area E)
SJ: Social Justice
Complementary Studies

Complementary Studies: Bachelor of Arts Degrees (12 Units Minimum)

Bachelor of Arts students must complete at least 12 units of Complementary Studies outside of the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement. Students earning Bachelor of Music or Bachelor of Science degrees do not have to complete the Complementary Studies requirement. Details about Complementary Studies can be found in the Bulletin description for each B.A. degree. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. These students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
Academic Advising for Undergraduate Students

Academic Departments (Advising for Majors and Minors)

Major and minor advising is offered by faculty members in each department. Some departments assign advisors and others provide lists of advisors and permit students to choose their own advisor. Contact the department for referral to an advisor.

Undergraduate Advising Center

The Undergraduate Advising Center (http://advising.sfsu.edu) is staffed by counselors and peer advisors committed to providing guidance and information to help undergraduate students have a successful college experience. Along with general academic advising information, the Undergraduate Advising Center provides the following services:

Academic Advising

Academic advisors help students understand general education and graduation requirements and assist them in selecting appropriate courses that fit with their academic goals.

Undeclared Majors

Academic advisors in the Undergraduate Advising Center (http://advising.sfsu.edu) help students make informed and satisfying decisions about academic goals that are best suited to their interests and needs. Workshops, resource materials, and appointments are available.

Orientation

Orientation is a must for all incoming students. Orientations are scheduled during the summer and winter prior to each semester. Information materials regarding Orientation are sent to all newly admitted students. Advisors in the Undergraduate Advising Center participate in the orientations and assist students with selecting and registering for classes for their first semester.

Readmit Students

Students who attended SF State in the past (readmit students) may make an appointment in the Undergraduate Advising Center to discuss the possibility of readmission.

Advising Services

Faculty and staff throughout the University provide academic advising. The goal of advising is threefold:

- to facilitate intellectual and personal development,
- to enhance academic performance, and
- to ensure progress toward graduation.

Meeting regularly with advisors enables students to stay on track and to be successful. All students are expected to make use of available advising services located in the academic departments, the Undergraduate Advising Center, college-based Student Resource Centers and in special advising and support programs.

Undergraduate Student Advising

Advising for majors and minors is available from faculty members in each department. It is the student’s responsibility to seek out a faculty member to serve as an advisor. Some departments assign advisors and others have students choose from a list. Contact the department for referral to an advisor.

Graduate Student Advising

Advising for graduate students is available from faculty members in each department. In addition, the Division of Graduate Studies (http://grad.sfsu.edu) provides general advising for prospective and continuing students about all graduate program policies and procedures. Contact the department for referral to an advisor.

Additional Advising and Retention Programs

San Francisco State University offers other advising services and support programs to assist students. Click on any of the following programs for more information:

- Campus Academic Resource Program (CARP) (http://carp.sfsu.edu)
- Developmental Studies Office (http://developmentalstudies.sfsu.edu) – Support for students taking developmental/remedial courses
- Disability Programs and Resource Center (DPRC) (http://access.sfsu.edu)
- Educational Opportunity Program (EOP) (http://www.sfsu.edu/~eop)
- Learning Assistance Center (LAC) (http://lac.sfsu.edu) – Tutoring
- Metro College Success Program (METRO) (http://metro.sfsu.edu)
- Office of International Programs (OIP) (http://oip.sfsu.edu)
- Undergraduate Advising Center (UAC) (http://advising.sfsu.edu)

College Based Resource Programs

- Advising Resource Center (ARC) (http://advisinglca.sfsu.edu) – College of Liberal & Creative Arts
- College of Business Student Services Center (COBSSC) (http://cob.sfsu.edu/resources/undergraduate) – College of Business
- COSE Student Resource Center (https://cose.sfsu.edu/content/cose-success-center) – College of Science & Engineering
- Ethnic Studies Student Resource & Empowerment Center (http://ethnicstudies.sfsu.edu/studentcenter) – College of Ethnic Studies
- Student Resource Center (SRC) (http://chss.sfsu.edu/src) – College of Health & Social Sciences
- Student Resource Center (SRC) – College of Education

Planning Your Studies at SF State

The baccalaureate degree includes General Education (GE) requirements, other university graduation requirements, an academic major, perhaps a minor or second major, and elective course work. Students, with the aid of advisors, combine these elements in a creative and thoughtful way. By taking the time to create a meaningful degree program, students will not only graduate in a timely manner, but will benefit from the opportunity to take personal responsibility for their own learning.

Check your level of readiness.

If you begin college at SF State and are not exempt, you must take required entry-level tests (ELM/EPT) before your first semester to ensure
that your skills in mathematics and English are at a college level. Any required remediation must be completed in one year.

Use GE to learn about yourself and your world.

If you are unsure about what you want your major to be, it is a good idea to spend your first semesters exploring different options. GE allows you to learn about different subjects.

It’s OK to be undeclared.

A large percentage of incoming first-time college students have not yet declared their major. Take time to explore the possibilities. Meet with an advisor in the Undergraduate Advising Center (http://advising.sfsu.edu) and use SF State services, such as the Office of Career Services & Leadership Development (http://careerservices.sfsu.edu), to help you find the right major. First-time college students need to declare a major before completing 70 units.

It’s OK to change your major.

Most students change their major at least once while in college. If you find that the major you have chosen is not right for you, explore other options. You will probably find that there are many more choices than you have ever encountered.

General Education and major requirements may sometimes overlap.

Most majors include courses that meet both GE and major requirements. This is referred to as “duplicate use of credit” or simply “double-counting.” By choosing certain courses, you can satisfy both GE and major requirements. For some majors, you can also meet GE requirements through “met in major.” Refer to your major to see if there are any GE requirements that might be “met in major.”

When you have decided on a major, make a tentative plan for your remaining semesters at SF State.

Many departments will provide you with an advising worksheet so you can keep track of your progress. Most majors have sample “roadmaps” that show a possible pathway to graduation. You can also refer to your Degree Progress Report, found in your Student Center, in order to track your progress towards completing your major.

Plan your program in consultation with an advisor.

Review your advising worksheet or roadmap frequently and meet with an advisor on a regular basis. Go to your major department and request an advisor or, if you are undeclared, or thinking about changing your major, meet with an advisor in the Undergraduate Advising Center (http://advising.sfsu.edu).

Bring your advising materials to your advising sessions. (Unofficial transcripts, Degree Progress Report [DPR], Advanced Standing Evaluation Form [ASE], if applicable, etc.).

This SF State Bulletin is the most complete source of information regarding graduation requirements and university policies and procedures. Use this Bulletin to help choose a major and to determine course content and prerequisites.

Use the online Class Schedule to determine which courses are offered each semester. At the Web site, https://webapps.sfsu.edu/public/classservices/classsearch, you will also find an academic calendar and information on tests and deadlines. Some departments provide advance information on future course offerings, either online or in departmental offices.

Degree Progress Report (DPR) is an advising document created to inform students how courses have been accepted toward GE and other graduation requirements. Students should review their DPR after each semester’s grades are recorded in order to monitor progress in completing requirements and to resolve errors and/or complete deficiencies. DPRs can be found by logging onto the SF State Gateway (http://gateway.sfsu.edu) and going to the Student Center.

Advanced Standing Evaluation (ASE): Some students who began their studies at SF State prior to Fall 2014, may have an ASE that records transfer coursework that does not appear on the Degree Progress Report. In addition, students readmitting to SF State Fall 2014 and after, may also have an ASE for previously transferred and evaluated coursework. In this case, students will see that they have “legacy units” recorded in the Transfer Credit Report in the Student Center. These “legacy units” show on the ASE. If the units meet GE or graduation requirements, the ASE will show that was well. The ASE must be used with the DPR to understand the GE and other graduation requirements that have been met. Students can request a copy of their ASE from the Registrar at the One Stop in the Student Services Building.

Transcripts of SF State and Transfer Institutions assist students and advisors in determining that prerequisites have been met, that skills are sufficiently developed, and that courses have been taken appropriately for the degree. Bring copies of transcripts when meeting with advisors to help monitor progress and determine the best path toward the degree.

Major and Minor Requirements Worksheets and Roadmaps provide information to assist students in fulfilling requirements. Many departments publish flowcharts and graphic illustrations of prerequisite structures to help in planning. Often worksheets include details in addition to what is found in the Bulletin and also provide space for advisor verification of course equivalencies in the major/minor.

Pay careful attention to course prerequisites.

Be sure to take courses in the proper sequence. Included in this Bulletin is a description of all courses offered at SF State (bulletin.sfsu.edu/ courses). If you need prior experience or exposure to a subject as background to a course, prerequisite requirements are listed which must be taken before you can take that course.

Discuss effective use of elective credit with your advisor.

You may use these elective units to fulfill prerequisites for graduate school, develop a specific competency (for example, foreign language or computer skills), or to enrich your life and expand your understanding.

Take advantage of as many opportunities as possible while in college.

If you plan your education well, you will find time to participate in internships, student organizations, and many other programs and services available at SF State. In most majors, you can spend a semester or a year studying at a university in another country; the staff in the Office of International Programs (http://oip.sfsu.edu) will help you plan both your academic program and your finances if you would like to study abroad.

Go at your own speed.

Take care of the basic skills first. Most students work while attending SF State and therefore may not graduate in the typical eight semesters.
Each student should take the number of units that is consistent with his/her specific family, work, and social obligations.

Most majors consist of approximately 45 units. If a student is earning a B.A. degree, the following is a sample unit breakdown. This example assumes no duplicate use of credit ("double counting") between the major and GE requirements. The distribution will be slightly different for transfer students. An average of 15 units per semester will be needed to complete the degree in eight semesters.

Most B.S. degrees can also be completed in 120 units, but in some programs, a student will need more than 120 units. An average of 16.5 units per semester will be needed to complete the degree in eight semesters.

How is transfer credit evaluated for GE?

Transfer students from California Community College or California State University campuses will be given credit for general education requirements which their former institutions certify as completed. Transfers from other public or private colleges will be given appropriate GE credit as determined by SF State evaluators.

Can I earn GE credit for college-level learning that I acquired through prior work or life experience?

Yes, that may be possible. The CEEL (Credit by Evaluation for Experiential Learning) Program provides a way of earning General Education, elective, and, in some cases, major credit for those students who have acquired prior college-level learning for which no college credit has been awarded. To obtain further information about CEEL, contact the Undergraduate Advising Center (http://advising.sfsu.edu).

Should I carefully plan my GE program?

Yes. Some courses may not be offered every semester. Exceptions to GE requirements are considered only under unusual and extenuating circumstances.

Academic Checklist

This is a summary of the SF State graduation requirements and restrictions. Detailed explanations of each requirement are included in this section of the (p. 82)Bulletin. Use this list to check your progress.

Bulletin Year 2017 – 2018

Entry Level Requirements

• Entry Level Mathematics (ELM)
• English Placement Test (EPT)
• Composition for Multilingual Students Placement Test (CMSPT)

Unit Requirements

• Minimum units required to graduate
  B.A. = 120 semester units minimum
  B.S. = 120–132 semester units minimum
• Residence Requirement: 30 units minimum at SF State, including 24 units upper division, 12 units in the major (lower or upper division), and 9 units of upper division General Education coursework.
• Upper Division Requirement: 40 units minimum, including 24 units at SF State, and 9 units in General Education.

Maximum Unit Restrictions

• Maximum Units for Community College Work: 70 units
• Maximum Units by Examination or Evaluation: 30 units
• Maximum Units CR/NC: 30% of total units earned at SF State. See major department for further restrictions.
• Maximum Units in One Semester: 19 units (Written approval must be received to exceed the 19 unit limit).
• Maximum Units for Courses Numbered "685" and Titled "Projects in Teaching . . ." That may be Applied to the Baccalaureate Degree: 4 units.

Grade Point Average

• Minimum Grade Point Average: 2.0 in all college work, in SF State work, and in the major.

Major Requirements

• Refer to Academic Programs (p. 194) section of this Bulletin.

Minor (optional except for Journalism majors)/Second Major

• Refer to Academic Programs (p. 194) section of this Bulletin.

General Education Requirements – 48 units minimum

• Special requirements apply to each Area of the GE Program. Transfer students are subject to different GE requirements than are students admitted to SF State as first-time freshmen. See the GE section of this (p. 82)Bulletin for specific policies and course requirements.

Area A: English Language Communication and Critical Thinking – 12 units minimum

• A1: Oral Communication – 3 units
• A2: Written English Communication I – 3 units
• A3: Critical Thinking – 3 units
• A4: Written English Communication II – 3 units

Area B: Scientific Inquiry and Quantitative Reasoning – 9 units minimum

• B1: Physical Science – 3 units
• B2: Life Science – 3 units
• B3: Laboratory Science – 0–1 units
• B4: Quantitative Reasoning – 3 units

Area C: Arts and Humanities – 9 units minimum

• C1: Arts
• C2: Humanities
• C3: Humanities: Literature

Area D: Social Sciences – 9 units minimum

• D1: Social Sciences
• D2: Social Sciences: US History
• D3: Social Sciences: US & CA Government

Area E: Lifelong Learning and Self-Development – 0–3 units

Upper Division General Education – 9 units minimum

• The upper division general education requirement is satisfied by taking one 3 unit course in each of the three domains of knowledge: Physical/Life Sciences (UD-B), Arts/Humanities (UD-C), and Social Sciences (UD-D). The courses must be taken at SF State during or
after the semester in which upper division standing is achieved (60 units).

**SF State Studies Requirements – 0–12 units**

- All students must complete at least one course (in general education, a major, a minor, a certificate, complementary studies, or an elective) that is designated in each of four areas. The areas are American Ethnic and Racial Minorities (AERM), Environmental Sustainability (ES), Global Perspectives (GP) and Social Justice (SJ). It is expected that most students will not have to take additional courses to meet these requirements, but that they will be met with the courses they take for their degree. Students studying abroad can petition to have the Global Perspectives area of the SF State Studies requirement met with a study aboard course.

**Complementary Studies: Bachelor of Arts Degrees – 12 units minimum**

- Bachelor of Arts students must complete at least 12 units of Complementary Studies outside of the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement. Students earning Bachelor of Music or Bachelor of Science degrees do not have to complete the Complementary Studies requirement. Details about Complementary Studies can be found in the Bulletin description for each B.A. degree. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree (http://ueap.sfsu.edu/articulation/roadmaps) at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. These students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**AP – IB – CLEP Examinations**

**Standardized External Examinations**

San Francisco State University grants credit toward its undergraduate degrees for successful completion of the three standardized exams below. For credit to be awarded, official score information must be sent directly to SF State from the test administrator - College Board (AP, CLEP) or International Baccalaureate (IB).

Students may not earn duplicate credit if they have previously completed or subsequently complete equivalent exams or college-level course work.

Select an examination below for information about the award of SF State credit.

- Advanced Placement (AP) (https://ueap.sfsu.edu/sites/default/files/assets/docs/artic_docs/AP_Credit_curr.pdf)
- College-level Examination Program (CLEP) (https://ueap.sfsu.edu/sites/default/files/assets/docs/artic_docs/CLEP_Credit_curr.pdf)
- International Baccalaureate (IB) (https://ueap.sfsu.edu/sites/default/files/assets/docs/artic_docs/IB_Credit_curr.pdf)
- Previous Years (Archives) (http://ueap.sfsu.edu/articulation/resources)
GRADUATE EDUCATION

• U.S. News and World Report consistently ranks many of SF State’s graduate programs among the best in the United States. Our programs are nationally recognized and draw top applicants from across the country and internationally.

• Our faculty, in collaboration with our graduate students, are active scholars engaged in vital research and creative endeavors that are changing the way we understand our world. Projects undertaken by our faculty are funded by grants and contracts from the most competitive government and private agencies.

• Graduate students seeking degrees in the fields of science develop their skills in the Conservation Genetics Laboratory, the Romberg Tiburon Center for Environmental Studies, an electron microscope facility, a DNA analysis facility, a Thin Film Laboratory, the Center for Computing and Life Sciences, and the Nuclear Magnetic Resonance Center.

• SF State has abundant resources such as the largest radio and television production facilities in Northern California, the Design Center for Global Needs, the Poetry Center and American Poetry Archives, the Digital Cinema Lab, the Confucius Institute, and the Graduate String Quartet Residency Program.

• All graduate students have the use of our state-of-the-art, newly renovated Library. The new building includes 3000 seats for quiet and group study, over 250 public computers, a Digital Media Studio for students with 9 editing rooms, and extended hours study areas with 18 group study rooms.

Graduate Admissions and Graduate Studies

There are nearly 4,000 students enrolled in post-baccalaureate study in 93 master’s programs, an Ed.D. in Educational Leadership, and two joint doctoral programs with the University of California. The University also offers credential programs in education, specialized graduate certificate programs, and second baccalaureate degree programs. Our students, many of whom are working full- or part-time, are fully engaged in scholarly endeavors, including basic and applied research, creative projects, and community service. General information about graduate study and how to begin and complete a post-baccalaureate program can be found in the following pages of the Bulletin at Graduate Education (p. 115), Graduate Studies website grad.sfsu.edu (http://grad.sfsu.edu), or by contacting the Division of Graduate Studies. A handbook for graduate students, the GradGuide, is available on the Graduate Studies website or in print at the Graduate Student Orientation held before the start of each fall semester.

For information about a specific program, the student should view the academic department website or contact the program graduate coordinator to obtain program-specific admission and/or degree requirements. Graduate coordinator contact information and department information can be accessed from the Graduate Studies website.

Faculty Teaching in Graduate Programs

Faculty members teaching in graduate programs hold doctoral or other terminal degrees in their field. These tenured and tenure-track faculty members serve as advisors on theses, creative works, field projects, and/or graduate comprehensive examinations committees based on the faculty member’s expertise and area of research or scholarly work. In some cases, non-tenure track faculty members with exceptional backgrounds in specific areas of study may be assigned to teach graduate-level courses. You can review faculty backgrounds in our Bulletin faculty directory.

CSU Graduate Admission

General Eligibility Requirements

Minimum requirements for admission to graduate study in the California State University are in accordance with Title 5, Division 5, Chapter 1, Subchapter 3, of the California Code of Regulations. The University has the right to require higher standards than the minimum requirements published in Title 5.

To meet the minimum eligibility standards for graduate study at SF State, an applicant must:

1. hold a baccalaureate degree from a regionally accredited institution, or shall have completed equivalent academic preparation as determined by the appropriate campus authority;
2. be in good academic standing at the last college or university attended;
3. have a 3.0 GPA in their earned undergraduate degree or in the last 60 semester (90 quarter) units completed, or have earned a post-baccalaureate degree; and
4. meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

Graduate Admission Processes

Application for admission to a graduate degree, credential, or certificate program requires the student to apply to both the University through the California State University (CSU) common application, CAL STATE APPLY (https://www2.calstate.edu/apply), and directly to the academic department/program. Applicants to post-baccalaureate study must file an application and be accepted to each program to be eligible to earn a degree, certificate, or credential. Retroactive admission and/or award of degree or certificate is prohibited for students who complete coursework in a program to which they have not been admitted. Applicants seeking prerequisites for entry to a graduate degree program should contact the Division of Graduate Studies. The CAL STATE APPLY (https://www2.calstate.edu/apply) online application system does not allow applicants to apply to more than one SF State graduate program per application term. Application materials will not be reviewed by any program other than the one the applicant has designated on their formal university application. If you are not selected for admission to your preferred program, contact Graduate Studies for an alternate program.

Applicants to a second baccalaureate degree program must use the graduate admission application through CAL STATE APPLY (https://www2.calstate.edu/apply). Second Baccalaureate admission is restricted to select degree programs by the CSU Chancellor’s office. Applicants seeking admission to other second bachelor’s degree programs must obtain written support for admission from the Academic Department Chair of the intended program of study. Contact the Division of Graduate Studies for procedures and forms to be considered for admission.
University Right to Select Students
The University reserves the right to select its students and deny admission to the University or any of its programs. The University, in its sole discretion, determines admissions based on an applicant’s suitability for graduate study, which is based on the application materials submitted and the applicant’s fit with the department’s mission, goals, resources and areas of faculty scholarship. Admission to graduate programs is selective and more people apply than can be accepted. Meeting minimum University or department requirements for admission does not ensure acceptance into a graduate program. The University graduate admissions process is conducted in compliance with its Nondiscrimination Policy (see the Regulations and Procedures (p. 163) section of this Bulletin for the complete policy).

Importance of Filing Complete, Accurate, and Authentic Application Documents
The University and its programs have the right to verify all information and documents submitted in and with the application. Applicants must supply complete and accurate information on all application materials for admission, residence questionnaire or residency reclassification request, and financial aid forms. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Transcripts
All graduate and post-baccalaureate applicants must provide the Division of Graduate Studies with one official transcript from each college or university attended, including community college and study abroad coursework. Separate transcripts from each college or university are required even though one transcript may show course work taken at another institution. Transcripts for coursework completed at SF State are not required. Applicants must check the academic department/program information to determine if a second set of official transcripts must be sent directly to the department. Official transcripts must be submitted in envelopes sealed by the issuing college or university. Copies of transcripts or opened official transcripts will not be accepted. Official transcripts sent electronically from authorized agencies, such as, Script Safe, eScript, etranscripts must be sent to graddocs@sfsu.edu. Transcripts which have been submitted for admission or evaluation become the property of the University and are not returned or copied for distribution outside of the University.

Entrance Examination/Standardized Test Scores
The University does not require applicants to complete an entrance examination as a condition for graduate admission; however, many departments or programs do require that graduate degree applicants submit results of the general or area tests of the Graduate Record Examination (GRE) or the Graduate Management Admissions Test (GMAT) prior to admission. Check the department website for test requirements. Applicants are responsible for having the required examination results forwarded directly to the university or department. SF State’s GRE institution code is 4684. Our GMAT institution codes are F87HP99 for the M.B.A., and F87HP10 for the M.S.A. programs.

Pre-admission Writing Assessment
The University requires that all applicants meet a pre-admission (Level I) writing standard prior to entering a graduate program. Departments or programs stipulate the pre-admission writing standards appropriate to their discipline. Departments may require a specific score range on the analytical writing section of the GRE or GMAT or faculty will assess graduate-level writing with a department/program administered writing exam or essay. Students who do not meet Level I writing standards, but meet other admissions requirements, may be admitted with specific conditions stipulated by the department. Conditions for meeting Level I writing standards should be met by the end of the first semester after admission and must be met no later than the second consecutive semester after admission.

Program Application Materials
Letters of recommendation, a statement of purpose, writing samples and/or résumé materials required by the department or program must be submitted directly to the department or program. Check department/program website for requirements. For information on credential programs, contact the Graduate College of Education Credential and Graduate Services Center. Applicants for a school counseling, school psychology, or school social work credential should contact the department offering the program.

All application materials submitted to the University, academic department, or graduate program become the property of the University and will not be returned. In selected cases in which an applicant has submitted a portfolio of original work for review by a program admission committee, the original works may be returned if the applicant makes the necessary arrangements with the department and provides a stamped, self-addressed envelope or package for return mailing.

Application Filing Periods
The CAL STATE APPLY (https://www2.calstate.edu/apply) online application filing periods open on the dates listed below. All applications must be submitted by the academic department deadline. Applicants should consult the Graduate Division website (http://grad.sfsu.edu/program-deadline-dom), or contact the department/program directly for additional information.

Domestic and International Applications
Applications for fall are accepted beginning October 1.
Applications for spring are accepted beginning August 1. Not all programs accept spring applications. Consult the Graduate Division website (http://grad.sfsu.edu/program-deadline-dom) for information on spring admissions.

Applicants from Institutions without Regional Accreditation
An applicant who is a graduate of an institution without regional accreditation, or from an institution whose degree is not considered equivalent to a baccalaureate degree from this University in terms of quality and/or content (e.g., specialized, professional, or certain international institutions), may not be admitted directly to graduate or credential status at SF State. Applicants from non-accredited institutions should speak with the Senior Associate Director of Graduate Admissions to determine alternative preparation for graduate study. Additional coursework at the undergraduate level may be required. Information about regionally accredited universities can be found at the Council for Higher Education website (www.chea.org (http://www.chea.org)). International students should review the International Student Admission Requirements section below.
SF State Graduate and Post-Baccalaureate Application Procedures

Application to a graduate degree, credential, or certificate program is a two-part process. Students must apply to the University via the online CAL STATE APPLY (https://www2.calstate.edu/apply) application and apply to the specific department/program offering the degree, credential or certificate. Applicants seeking prerequisites for entry to a graduate degree program should contact the Division of Graduate Studies. SF State accepts applications for admission for the fall and spring semesters only.

Applicants to post-baccalaureate study must file an application and be accepted to each program to be eligible to earn a degree, certificate, or credential. Retroactive admission and/or award of degree or certificate is prohibited for students who complete coursework in a program to which they have not been admitted.

The following processes must be followed to be considered for admission to a graduate degree, credential, second baccalaureate, or certificate program at SF State, including degree programs offered through Special Sessions in the College of Extended Learning.

Part One

Apply to the University online via CAL STATE APPLY at calstateapply.edu (http://www.csumentor.edu/admissionApp), pay the required application fee and submit to the Division of Graduate Studies official transcripts from all colleges and universities attended. Applicants with multiple transcripts should remember that it may take the college or university issuing the transcripts several weeks to send the documents. To ensure more rapid processing, applicants should gather official University-sealed transcripts from each institution previously attended, place them together in the same large envelope and submit them by mail or in person to:

Graduate Admissions
San Francisco State University
1600 Holloway Avenue (ADM 250)
San Francisco, CA 94132–4013

eTranscripts will be accepted from participating universities and should be sent to graddocs@sfsu.edu. Evaluation of a student application will not be initiated until all University application materials have been received.

Applicants to graduate degree, credential, second baccalaureate, or certificate programs should apply early in the application period so that the Division of Graduate Studies can verify minimum university admission requirements and then forward this review to the department/programs by the department deadlines (http://grad.sfsu.edu/program-deadline-dom).

Applicants to either of the two joint doctoral programs should check the Graduate Studies website for links to the department for specific application deadlines and requirements.

Part Two

All graduate degree, credential, and certificate programs have additional application requirements. Department/program specific application materials may include (but are not limited to): copies of transcripts, test scores, a statement of purpose, department specific essay, portfolio or work, letters of recommendation, résumé, etc. These required materials must be submitted directly to the department or program by the department deadline. Please consult directly with the department or program for information about additional required materials or check online at grad.sfsu.edu (http://grad.sfsu.edu) to link to department-specific requirements. Departments will stipulate how you must meet the pre-admission (Level I) writing assessment. Check the department website for expectations. Review the Pre-admission Writing Assessment section of this Bulletin for information.

International Applicant Admission Requirements

SF State has separate application requirements for international F-1 or J-1 visa holders or applicants who have earned degrees outside of the United States. International applicants applying to a graduate program may have earlier application deadlines than those listed for domestic students. Applicants holding or requiring F-1 or J-1 visas must also submit the Financial Affidavit Form and evidence of financial resources for study in the U.S. for the issuance of an SF State I-20 Certificate of Eligibility. International students should access the Graduate Studies website (http://grad.sfsu.edu/content/prospective/international/ international-admissions) for information on admission criteria, English language requirements, and I-20 issuance.

All international applicants requiring an F-1/J-1 visa must be formally admitted and enrolled in conditionally classified or classified status as matriculated students in a degree program offered through the University. International applicants will be given full consideration for admission based on the SF State’s commitment to internationalizing the student body. The California State University (https://www2.calstate.edu/csu-system/media-center/Pages/CSU-Statement-on-President-Trumps-Executive-Order.aspx) is committed to being an inclusive and welcoming institution of higher education that is enhanced by the students, faculty, staff and alumni from our global community.

Academic Eligibility

Applicants educated outside of the United States must have earned a degree or diploma that SF State considers to be the equivalent of a U.S. bachelor’s degree from a regionally accredited institution. An official determination of eligibility will be made during the application process. Applicants graduating from international institutions with three-year degrees preceded by thirteen years of pre-collegiate work and “A-level” passes are admissible to SF State graduate programs if they meet all other University and program requirements. Applicants who hold a Bologna degree comprised of 180 ECTS may be eligible for admission following comprehensive evaluation of documents.

International applicants with twelve years of pre-collegiate education, a three-year bachelor’s degree followed by a post-graduate diploma or an honors bachelor’s may be admissible to graduate programs at SF State.

Required Educational Documents

Applicants educated outside of the United States must submit official or university-attested and sealed copies of all original academic documents in the original language of issue. Copies must be certified by the appropriate university official. Required documents include: the complete official academic record showing all courses or subjects; dates of enrollment and grades/marks received; official degree(s), diploma(s), or certificate(s) awarded. Official word-for-word English translations must be submitted in addition to the original language documents.

English Language Proficiency Requirement (TOEFL/IELTS/PTE)

All graduate, credential, second baccalaureate, and certificate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. According to Title 5 of the California Code of Regulations (Section 41040), to be admitted to a
Admission Decisions

The University reserves the right to select its students and deny admission to the University or any of its programs. Review the University Right to Select Students section of this Bulletin.

Notice of Admission or Denial

After review of all application materials, department or program admission committees notify the SF State Graduate Admissions office of their admission recommendations. Applicants are then formally notified of their admission status on receipt of the official SF State Graduate Admission Notification Letter issued by the SF State Division of Graduate Studies. Letters of admission from the department or program received prior to the official SF State Admission Notification Letter are not valid. Applicants who are denied by either the University or the academic department or program will receive notification of denial from the Division of Graduate Studies.

Admission Contingent on Award of Degree

If a student is admitted to the University before the final award of the baccalaureate or post-baccalaureate degree, an official transcript with degree award notation must be submitted before the end of the fourth week of the first semester of enrollment. Students who are admitted to a graduate program contingent on award of the undergraduate degree must maintain a 3.0 GPA in all work completed before the degree is earned or admission status may be rescinded. Any student who does not submit documentation of completion of an undergraduate degree by the end of the fourth week is subject to one or more of the following actions: cancellation of admission and registration, automatic reclassification to undergraduate status, loss of all units taken for post-baccalaureate credit, and disciplinary action if appropriate.

Expiration of Admission Offer

Admission will be cancelled if an applicant is accepted by SF State for a given semester and does not enroll in that semester. Applicants who let their admission offer expire must file a new CAL STATE APPLY (https://www2.calstate.edu/apply) application, pay a new application fee, and meet the requirements for admission in effect for the new term to which they are applying. Readmission to a future semester is not guaranteed. An offer of admission may also be withdrawn by the graduate program if the applicant has not indicated their intent to enroll by the program deadline or has failed to meet a condition of admission set by the program.

Admission Categories

Graduate Conditionally Classified

Most students are admitted to the University in conditionally classified standing. Admission conditions are determined by the program and must be met within the specified timeframe set by the program. Programs admit students in this category to evaluate progress toward degree completion. This admission category does not impact Financial Aid eligibility. Students admitted in this category will be moved to classified status after submission and approval of the Advancement to Candidacy Form (ATC).

Graduate Classified

Very few students are admitted directly to this category. Most students advance to this status after submitting an approved Advancement to Candidacy Form (ATC).

Post-baccalaureate Classified

Students admitted to a credential or second baccalaureate program will be admitted as post-baccalaureate classified. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree program. Contact the Credential and Graduate Services Center for further information on credential programs. Students seeking admission for administrative or special education credentials should contact the departments directly. Second baccalaureate students should maintain close ties with the Department Advisor to ensure prerequisite or a second bachelor's degree coursework is completed according to submitted plan.

Post-baccalaureate Unclassified

Students who have earned an undergraduate degree and are admitted to a graduate or undergraduate certificate program are admitted to this category. Certificate students should contact the department offering the certificate program for information about the application process. Not all certificate programs are Financial Aid eligible.

Transfer Credit from Other Institutions

Graduate courses taken at another university are not automatically transferable to an SF State program. At the discretion of the department faculty, with support of the dean of Graduate Studies, a maximum of six 6 semester units, including any combination of transfer units or coursework through the College of Extended Learning, may be used to meet the requirements of a 30 unit program, or proportionally more for a program requiring 45 or more units. Students requesting transfer of units should confer with the department chair or graduate coordinator and the Division of Graduate Studies after notification of admission.

Departments/programs have the authority to determine which transfer courses will be accepted for use on the Advancement to Candidacy (ATC) form. (Review the Advancement to Candidacy section of this Bulletin for more information). Courses accepted for transfer credit by the department must meet the following minimum University requirements, but higher requirements may be stipulated by the department:

- The course content clearly meets the program's curricular requirements stipulated in the SF State Bulletin.
- The course was taken at a regionally accredited (or international equivalent) institution of higher education.
Graduate Admissions and Graduate Studies

• The course was not used to meet the requirements for an undergraduate or graduate degree awarded (excess units) at SF State or at another institution.
• The course was completed after earning the baccalaureate degree.
• The course was either an excess upper division or a graduate course at the institution at which it was taken and must be acceptable to that institution's advanced degree program.
• The course(s), if taken through an extension program, must be acceptable as a degree course at that university. Some extension courses are not acceptable. Check with Graduate Studies for transfer assessment.
• The course was not taken any earlier than seven years from the date the student is planning to graduate. Transfer courses become invalid when they no longer meet the seven-year condition.
• The student earned an acceptable grade (C or better) in the course. A grade of C will be calculated into the student's ATC GPA which cannot be lower than a 3.0. Most departments require a grade of B or better for transfer courses.
• Quarter units will be converted to semester units (i.e. a three-unit quarter course is equivalent to two semester units).
• Credits earned at recognized foreign universities may be transferable if course content, credit hours and grades are determined equivalent to SF State coursework. An official academic record and certified translation must be on file in the Division of Graduate Studies.

It is the obligation of the student, the student’s advisor, and the graduate coordinator to determine that the proposed transfer course meets all of the conditions for eligibility for inclusion on the ATC form.

A student requesting to have a course taken at another institution included as part of his/her graduate program should do the following:

• Obtain the approval of his/her graduate advisor and graduate coordinator on the Request for Graduate Program Transfer Unit Evaluation form (http://grad.sfsu.edu/sites/default/files/assets/forms/transfer-unit-evaluation.pdf).
• Submit the official transcript from the transfer institution with the Request for Graduate Program Transfer Unit Evaluation form to the Division of Graduate Studies for signature by the dean or designee.
• If approved, the course may be included on the ATC. Departments may deny transfer courses.
• Transcripts which have been submitted to the Division of Graduate Studies become the property of the University and are not returned or copied for distribution.

Credit by Examination

Credit by examination is seldom granted unless a student shows a high level of prior competence in the content area of the course being challenged and passes all course requirements through formal examination. An example of a student granted credit by examination is a highly skilled nurse who is able to pass the didactic and practical sections of a nursing course final examination.

To earn credit by examination, a student must obtain approval from the department chair and graduate coordinator. Grading options will be the same as that available for the course being challenged. The examination is to be comprehensive and include whatever activity, test, or demonstration is deemed appropriate for evaluating the skills, understanding, or knowledge required by the objectives of the course. Students must be regularly enrolled during the semester they earn credit by examination. Units earned via credit by examination are counted as part of the total units registered for a given semester and appropriate fees must be paid. Grades received as a result of the examination will be recorded on the student’s permanent record and appropriate grade points assigned.

Credits Taken Prior to Admission to a Graduate Program at SF State

• Credit through Open University, College of Extended Learning (CEL): No more than six units or 20 percent for required units for degree (proportionally more for larger unit degree programs) taken in CEL through Open University may be counted toward a graduate degree.
• Credit for Graduate Courses Completed as an Undergraduate: Up to nine units of upper division or up to 12 units of graduate work (not to exceed a total of 12 units) completed as an undergraduate may be counted toward a graduate program ONLY if the work was taken in the final semester before the bachelor’s degree was earned.
• Credit from Certificate Programs during Post-Baccalaureate Classified Status: When a student enrolls in a certificate program prior to admission to a related master’s program, no more than 12 units taken in Certificate status may be applied to a certain master’s degree. Any double counting of units must be approved by the department and the Division of Graduate Studies. Not all programs permit double counting of degree and certificate units.
• Credit Completed during Second Baccalaureate and Unclassified Graduate Status: The Chancellor’s Office has restricted access to these classifications due to budget issues. Admission to either status requires review by the dean of the Division of Graduate Studies. A specific plan of coursework must be approved by the dean. Students not following the plan of coursework will be administratively disqualified.
• Credit Completed before Admission: Applicants to post-baccalaureate study must file an application and be accepted to each program to be eligible to earn a degree, certificate, or credential. Retroactive admission and/or award of degree or certificate is prohibited for students who complete coursework in a program to which they have not been admitted.

Graduate Courses Taken as an Undergraduate Student at SF State

Courses taken prior to the award of the baccalaureate degree at SF State are considered undergraduate courses. However, students who have completed all courses toward the undergraduate degree and who have applied formally for admission to an SF State graduate program, may request on the Application for Award of Baccalaureate degree that up to 12 units of upper division undergraduate or graduate work taken in the final semester before the award of the undergraduate degree be granted provisional post-baccalaureate status. Units to be applied toward a graduate degree may not be counted toward the undergraduate degree. Only units that are B or above and are acceptable to the graduate program may be petitioned for use toward the graduate degree. Inclusion of units on an Advancement to Candidacy (ATC) taken as an undergraduate must have approval of the department/program admission committee or graduate coordinator and the Division of Graduate Studies. The number of upper division undergraduate units must not exceed the total number of undergraduate units permitted on the ATC.

If the baccalaureate degree is not completed at the end of the term expected, the provisional post-baccalaureate status for specified courses may be voided.
If units were not specified for graduate standing when applying for award of the baccalaureate degree at SF State and the units were not used for the baccalaureate degree, students should submit a Petition for Waiver of Graduate Program Regulations to the Division of Graduate Studies.

**Concurrent Study for Two Different Master’s Degrees**

Students seeking admission for concurrent enrollment in a second graduate degree must meet the following criteria:

1. be in good standing in their current master’s degree program,
2. must have completed at least 15 units of their current master’s degree program,
3. must formally apply and be admitted to the new master’s degree program and
4. may not use the same coursework nor complete the same culminating experience for both programs. For concurrent degrees with a common core, faculty of the programs must determine alternative core courses for the second degree.

Students studying for concurrent masters degrees may not use the same coursework, nor complete the same culminating experience, for both programs. For concurrent degrees with a common core, faculty of the programs must determine alternative core courses for the second degree.

**Concurrent Study for Master’s Degree and Credential**

Contact the College of Education, Credential and Graduate Services Center for information on current admission policies for entry into a credential program. Students intending to secure both a master’s degree and a California basic teaching credential may, in some programs, pursue these objectives concurrently, although some departments do not allow the same courses to be used for both objectives. Check with the department and Credential Office (College of Education) for the policy. If allowed by the department, no more than 12 units taken in credential status may be applied to a master’s degree.

**Readmission**

Readmission to a graduate program is not guaranteed. Students reapplying for admission are reviewed with all other applicants during that application period. Advancement to Candidacy (ATC) status is automatically voided after two consecutive regular semesters of absence have occurred and when no formal planned educational or health-related leave of absence has been granted. A leave of absence can only be taken prior to enrolling in the Culminating Experience. The Leave of Absence request form (http://grad.sfsu.edu/sites/sites7.sfsu.edu/grad/files/assets/forms/leave-of-absence-request.pdf.html) is found on the Graduate Studies website. Upon readmission, a new ATC that meets current curricular requirements must be completed and filed. Review the Continuous Enrollment Requirements (p. 129) and Progress Toward Degree (p. 124) sections of this Bulletin for information.

SF State graduate students must reapply for admission to the University and the department/program if:

1. they did not enroll in the first semester of admission;
2. they have been absent for two consecutive regular (spring/fall) semesters as a matriculated student; and/or
3. they have attended another college in any interval of their absence.

In order to be considered “in attendance” for any semester, the student must be enrolled in at least one class through the end of the twentieth day of instruction.

Applications for readmission and all supporting materials must be filed in the Division of Graduate Studies in accordance with current requirements and procedures. In order for previously matriculated SF State graduate students to be eligible for readmission, they must have earned a minimum GPA of 3.0 in all coursework attempted in graduate status and, if applicable, all coursework attempted at other colleges during their absence. If a student has attended any other educational institutions following attendance as a matriculated student at SF State, transcripts must be submitted for all academic work undertaken since the student last attended SF State. Students applying for readmission must have been in “good standing” at SF State and must have been making continuous progress toward degree before leaving their SF State program. Students wishing to re-enter with a GPA lower than 3.0 must improve their GPA by taking courses through CEL Open University before reapplying.

**Courses Taken to Improve GPA**

Courses taken to improve the GPA prior to admission to a graduate program or following academic disqualification should be selected to improve academic preparation for graduate coursework. Students may not enroll in non-degree related courses in Open University or lower division courses to improve a deficient GPA. Coursework taken to improve the GPA may not be applied toward their graduate degree.

**Graduate Academic Policies and Procedures**

**Election of Bulletin Requirements**

A graduate student must meet the department curriculum requirements published in the University Bulletin in the semester the student was admitted and enrolled. Programs that have enacted curriculum changes after publication of the Bulletin must notify students in writing of any changes in degree requirements at the time of enrollment. Updates in requirements may be published in the online Bulletin, the department student handbook, and/or in program advising materials. Continuing students must be notified by the department chair or graduate coordinator in writing with return receipt required indicating the student’s knowledge of the changes. Students readmitted to a graduate program after an absence of two consecutive regular semesters must meet the requirements of the program in place during the semester of their readmission.

**Doctoral Degree Requirements**

Students accepted into one of the two doctoral degrees at SF State offered jointly with the University of California and students in the Ed.D. in Educational Leadership should work closely with their academic advisors to ensure that all policies and procedures are being followed. Procedures for continuing student performance in doctoral programs are different from those required for students in master’s programs. Review the department/program information in this Bulletin or contact the department office directly for specific requirements and program information for all doctoral degrees.

**Master’s Degree Requirements**

To award the master’s degree, SF State requires that all graduate students seeking a master’s degree must:

- Meet the basic admission requirements for the University and the department or degree program;
• Complete two levels of the Written English Proficiency Requirement;
• Complete the specific course requirements leading to the degree
  (refer to program materials in this Bulletin and graduate program
  handbooks for department requirements);
• Complete a Culminating Experience defined by the department/
  program and approved by the University.

Written English Proficiency Requirement
Each graduate student must demonstrate, in an independently written
format, the ability to write English correctly and effectively to explain,
defend or argue discipline-specific issues. The written English proficiency
policy (#S16–014) requires two distinct levels of assessment: Level I
(admission) and Level II (degree requirement). The Level I requirement
must be met prior to admission, or no later than the first semester
of enrollment. Typical Level I written requirements may include a
4.0/6.0 or above on the Analytic Writing Assessment of the GRE or
the GMAT, a score of at least 4.5/6.0 on the essay test of the paper-
based [PBT] TOEFL, a minimum score of 24/30 on the Writing section
iBT TOEFL, a score of at least 6.5/9.0 on the IELTS writing test, a
department placement exam, writing samples, or creative works portfolio
as determined by the department. Level I written proficiency
requirements are set by the academic department. Students who do not
meet the Level I English Proficiency requirement at the time of admission
may be conditionally admitted by the academic department with clear
expectations that the student will meet the Level I English Proficiency
requirement during the first semester of attendance.

Units completed by a student to reach Level I competency may not
be counted on the Advancement to Candidacy (ATC) form. Students
who, within the first semester of attendance, do not meet the writing
competency conditions stated in the admission letter are subject
to declassification from the degree program. The Level II writing
requirement is determined by the department/program and is usually
associated with completion of the Culminating Experience or may
be related to a designated writing intensive course taken prior to the
Culminating Experience.

The Advancement to Candidacy (ATC)
The plan of study that must be completed prior to award of the degree
is documented on the Advancement to Candidacy (ATC) form. The form
must be submitted to the Division of Graduate Studies after completion
of 18 units toward the degree and no later than the semester prior to
starting any preliminary research and before enrolling in the Culminating
Experience course. The Advancement to Candidacy (ATC) form must be
approved by the graduate major advisor and the graduate coordinator/chairstudent’s department or program. The form is submitted to the
dean of the Division of Graduate Studies for evaluation and approval.
Upon approval of the ATC, the student is advanced to candidacy and
classified status. Students who have submitted their ATC forms can
check on their Advancement to Candidacy status by accessing the
Student Center from SF State Gateway at the SF State login page (http://
www.sfsu.edu/login.html).

Forms are available on the Graduate Studies website and are specific to
each degree program. Forms must be completed online and downloaded
for signature and submission. Handwritten forms will not be accepted.

Any change in the ATC requires that the student submit to the Division
of Graduate Studies office a Petition for ATC Course Substitution, including
all required signatures. Required core courses listed in the Bulletin for a
degree must be regularly offered. In the rare cases this is not possible
because of budgetary issues or curricular changes, file the Waiver for
Graduate Program Regulation Form. An 899 Independent Study course
may not be substituted for a core or required course for the degree. An
ATC core course substitution must be approved prior to enrolling in
substituting course.

The following minimum standards apply to all Advancement to Candidacy
(ATC) forms.

Units Included on ATC must include:
• A minimum of 30 semester units or more as required for the degree.
  No degree will be awarded where the minimum number of units
  specified for the degree has not been completed.
• Seventy Percent (70%) of the units must be from graduate-level
  courses:
  • Fifty percent (50%) of the units from exclusively graduate level
    courses (700-899 level). Most programs require more units or all
    units to be taken at this level.
  • Twenty percent (20%) of the units on the ATC may be graduate
    paired courses (graduate students must always register for the
    graduate designated section of the paired course).
• Thirty percent (30%) of the units may be from upper division level
  courses:
  • Thirty percent (30%) of the units on the ATC in some graduate
    programs may be from upper division undergraduate courses.
    Graduate students enrolled in undergraduate courses must
    complete additional coursework as specified by the instructor.
  • No lower division course work (100-299) is allowed on the ATC.
• At least 18 units of coursework taken within the department offering
  the degree program.
• No more than six units from any combination of Open University
  (CEL) work, credit by examination, and/or transfer work for the
  requirement of a 30 unit program and proportionally more for
  programs that exceed 30 units (e.g., a maximum of 12 semester
  units may be used in meeting the requirement of a 60 unit program if
  accepted by the program).
• No more than six units of credit in 899 Independent Study courses
  (699 not permitted) related to the degree objective. The 899
  Independent Study may only be included on the ATC as an elective
  and cannot be used to substitute core required courses.
• No more than 30 percent (e.g., nine units on a 30 unit program) of the
  work with CR grades, including any transfer units.
• No more than six units of credit in experimental courses (874, 877).
  Undergraduate equivalents of these courses are not permitted on the
  ATC.
• No more than four graduate student teaching units applicable to the
discipline (e.g. ENG 804, E ED 746, PT 960, JAPN 780, PLSI 781, etc.)
may be included.
• No more than 12 units earned through an official graduate
  international exchange program (or proportionally more for higher
  unit programs) if approved by the department/program and the
  dean of Graduate Studies. Exchange work must be at the graduate
  level. Students using 12 units of exchange work on their ATC may
  not, in addition, use transfer work, Open University (CEL), credit by
  examination, or more than six units of 899 work on their ATC.
• No prerequisite course work may be used to meet degree
  requirements.
• No units used to obtain a previously awarded degree.
An ATC remains valid only if the student maintains continuous enrollment with the University, as defined in the Bulletin. Prior to enrolling in the Culminating Experience, a student who is not enrolled for two consecutive semesters must reapply for admission to the University and to the major department. If readmitted, the student must complete a new ATC that meets current university and program curricular requirements. Students who do not complete all required coursework, the written English proficiency requirement (Levels I and II), and the Culminating Experience within the seven-year time limit should refer to the Progress Toward Degree (p. 124) section of this Bulletin.

Grading Standards on the ATC

• Both a cumulative GPA of 3.0 in all post-baccalaureate work taken at SF State AND an overall ATC GPA of 3.0 (coursework listed on the ATC) is required.
• An ATC will not be approved if the transcript reflects an incomplete grade (i.e., I or IC). Students should resubmit the ATC after a grade is earned for the incomplete. IC grades are not permitted on the ATC.
• The ATC may include only courses with grades of C or better (grades of C– and lower may not be included). Some programs require grades of B or better on the ATC. Students are responsible for checking requirements with their graduate coordinator or department chair.
• Grades earned by international students in required English proficiency courses may not be used on the ATC and are not computed in the grade point average for the master's degree, but will be computed for evaluation of the SF State overall GPA.
• Graduate students in CR/NC courses must earn a B– or better to be granted a CR grade.
• A grade of RP is given for a Culminating Experience course until completed.

For General information on University grading standards, refer to the Grading Policy and Systems (p. 148) section of this Bulletin.

Units in Residence for ATC

• At least 24 of 30 units must be taken in residence on this campus or proportionally more for programs that exceed 30 units.
• Summer Semester academic units are counted as residence credit.

English Proficiency

The ATC must specify how the student has met the Level I and Level II written English proficiency requirement in accordance with the regulations of the department.

Culminating Experience

The ATC must specify the Culminating Experience and any additional oral or written exam requirements. (review Culminating Experience Requirements).

Culminating Experience Requirements

In accordance with Title 5 of the California Code of Regulations, the Culminating Experience must be met by the satisfactory completion of a thesis, special project, comprehensive examination, or a combination of more than one of these. An oral defense of the work is normally required.

Students must file a Proposal for Culminating Experience (PCE) (http://grad.sfsu.edu/content/current-students/thesis) that has been approved by program faculty. This form must be submitted subsequent to or simultaneous with the ATC. Both the PCE and ATC forms require original faculty signatures. No stamped or scanned signatures are accepted. Students are not permitted to enroll in a Culminating Experience course until both of these forms have been approved by Graduate Studies. A Report of Completion of the Culminating Experience and/or Receipt for Thesis or Written Creative Work must be submitted by the deadline date in order for the student to graduate in the semester of submission. Review the Division of Graduate Studies calendar (http://grad.sfsu.edu/all-dates-listing) for deadlines.

If changes occur in the project content, purpose, or research methods prior to completion of the Culminating Experience, a revised Proposal for Culminating Experience form must be submitted to the Division of Graduate Studies. If the type of Culminating Experience course changes after approval of the ATC and the Proposal for Culminating Experience, both a revised Proposal for Culminating Experience form and an ATC Substitution form must be submitted to the Division of Graduate Studies.

Title changes to the Proposal for Culminating Experience, after initial approval, must be requested through a Title Change Form (http://grad.sfsu.edu/sites/default/files/assets/forms/title-change-for-ce.pdf). Use the revised Proposal for Culminating Experience form if project’s content, purpose, or research methods change.

The types of Culminating Experience options to meet degree requirements are determined by the programs with approval of the Division of Graduate Studies. Typical Culminating Experience options are:

Seminar: Culminating Experience Seminar (890)
The 890 culminating experience course is not available for most programs. Check the department/program Bulletin information or handbook. The seminar may require a culminating paper, presentation, or exam. This requirement must show evidence of the application of knowledge and techniques learned in the field of study. This course requires additional supervision by the CE faculty. See program handbook for information. Most departments or programs provide manuals or information about the major-specific requirements. A Report of Completion form must be filed in Graduate Studies by the deadline date stated in the University calendar.

Supervised Field Internships (892)
A supervised field internship involves the placement of the student in a work experience situation culminating in a written report addressing the significance, objectives, methodology, and a conclusion. An oral defense of the report may be required by the department. A Report of Completion form must be filed in Graduate Studies by the deadline date stated in the University calendar.

Written Creative Work (893)
This Culminating Experience requirement is restricted to graduate students in the Creative Writing program and may consist of a short story, novel, series of poems, and/or play in which students demonstrate a unique style of writing. An annotation page must be completed and filed as a part of the final work. Students completing a written creative work should review and follow the Guidelines for Formatting and Submitting Written Creative Works (available at grad.sfsu.edu/content/current-students/thesis). This written creative work is a published product and will be maintained on file in the library. Students must obtain a Receipt for Thesis or Written Creative Work form in Graduate Studies by the deadline date stated in the University calendar. Formatting of the creative written work must be reviewed by Graduate Studies well in advance so any adjustments in formatting can be made before the deadline.

Creative Work Project (894)
This Culminating Experience may be a musical composition, a group of paintings, a performance, a film, a learning module, a design project,
or other creative endeavor by an individual student, as specified by the program. A Report of Completion form must be filed in Graduate Studies by the deadline date stated in the University calendar. These projects must be described in a written document that summarizes the project’s significance, objectives, creative methodology, and a conclusion. An oral defense of the project may be required. Note: MUS 894 for students with the composition emphasis requires that a bound copy of the music manuscript be filed with the library; consequently both a Report of Completion and a Receipt for Thesis or Written Creative Work are required.

Field Study or Applied Research Project (895)
This Culminating Experience is a field study or research project by an individual student that incorporates the application of knowledge and techniques acquired in the student’s program of study. The field study or research project must be described in a written document which includes the project’s significance, objectives, methodology, and a conclusion. With faculty permission, the finished document may be formatted in the manner of a discipline-specific journal ready for publication.

An oral defense of the project may be required. A Report of Completion form must be filed in Graduate Studies by the deadline date stated in the University calendar.

Comprehensive Examination (896EXM)
The comprehensive examination is a written examination that is prepared and administered by the major department so students can demonstrate their ability to integrate the content knowledge, independent thinking, and critical analysis, and, as may be appropriate, the accuracy of documentation. In most disciplines, students must also enroll in 896EXM (0 units), which is the marker that informs the graduate division that the comprehensive examination has been successfully satisfied. The results of the examination (pass or fail) must be reported to the Division of Graduate Studies on a Report of Completion form by the deadline date indicated in the University calendar.

Thesis (898)/Dissertation (998)
A thesis/dissertation is the written product of an original study by an individual student. It demonstrates clarity of purpose, critical and independent thinking, and accurate and thorough documentation. An oral or written defense of the thesis/dissertation may be required. Students completing a thesis/dissertation should review and follow the Guidelines for Formatting and Submitting a Master’s Thesis found on the Graduate Studies website (http://grad.sfsu.edu/content/current-students/thesis). The thesis and Dissertation formatting must be reviewed by the Division of Graduate Studies in advance of the deadline so any adjustments in formatting can be made by the final date of submission for the graduating term. The thesis/dissertation is a published product and will be maintained on file electronically in the J. Paul Leonard Library. Students must file a thesis/dissertation receipt form in Graduate Studies by the deadline date stated in the University calendar.

Joint/Group Culminating Experience Projects and Theses
The Culminating Experience is usually the expression of a single student’s work - a thesis (898), a dissertation (998), and a written creative work (893) must have a single author; however, the University recognizes that there are some circumstances that warrant joint/group projects. At no time will more than three students be able to submit a joint/group project.

Each student participating in the joint/group project must have separate responsibilities, and these must be reviewed, endorsed, and subsequently evaluated by the students’ Culminating Experience committee members. Each student must complete a separate Culminating Experience Proposal, but they must be submitted jointly for review. Each proposal must have an attachment that includes:

- A list of the separate research areas/responsibilities of each student
- A statement of the identifiable written component of the work to be completed by each student
- The signatures of each student and the committee chair

A Joint Project Statement form is available on the Graduate Studies website (http://www.sfsu.edu/~gradstdy/joint-projects-statement.htm).

If human or animal research is involved, students may submit one set of the research protocol documents but must list all participating students on the Protocol Approval Form.

Composition of Student’s Culminating Experience Committee
Regardless of the type of Culminating Experience being completed, a committee must be established to evaluate whether the student has satisfactorily completed the final requirement for the degree.

- The committee must consist of at least two members, and many programs require three members.
- The chair and the second member of the committee should hold tenured tenure-track faculty appointments in the major department.
- In circumstances where special expertise is available in another department, the graduate dean may authorize a designated tenured tenure-track faculty member from a related department to serve as the first or second reader.
- With special permission from the dean of Graduate Studies, some long-term lecturers, FERPs, selected faculty emeriti, or research collaborators with terminal degrees in their field or with special expertise may be approved as the second reviewer, provided their current curriculum vitae is on file in Graduate Studies. Due to the temporary nature of these special appointments, both the student and the lecturer must understand the risk to the timely completion of the Culminating Experience. An agreement form, establishing when a retired or FERP faculty member is available to work with the student, is available on the Graduate Studies website, found here: FERP Emeritus Thesis Agreement pdf download (http://grad.sfsu.edu/sites/sites7.sfsu.edu/grad/files/assets/forms/ferp-emeritus-agreement.pdf). It must be signed by both the student and committee member and submitted along with the Culminating Experience Proposal form.

- Lecturers or experts in the field from off-campus universities, industry or research facilities may serve as a third member of a student’s committee if they have extensive expertise in the area under study. A current curriculum vitae must be on file in Graduate Studies.
- If a committee member of the Culminating Experience leaves or is unavailable during the agreed upon semesters of completion of the Culminating Experience, the student will need to reconstitute the committee. New faculty members often have different expectations and may require a student to revise and resubmit the Culminating Experience Proposal.

- Students should be aware that few faculty members are available to provide guidance with the Culminating Experience during Winter Break or during the summer months. Students required to complete a defense of their thesis or research should plan for completion during the regular semester period. Agreements for review of drafts or defense hearings held outside of semester weeks should be obtained in writing.
To officially change the composition of a Culminating Experience committee, a student must submit a Petition for Committee Revision form (http://grad.sfsu.edu/sites/default/files/assets/forms/petition-for-committee-revision.pdf) to Graduate Studies.

Human and Animal Protections Requirements
Any research conducted by a student that involves humans, vertebrate animals, or biological specimens (e.g., tissues, stem cells/cell lines, blood) requires approval at SF State, even though that research may have been approved at another institution and/or takes place at another location. There are no exceptions. A student whose work involves humans, vertebrate animals, or biological specimens (e.g., tissues, stem cells/cell lines, blood) is not permitted to begin data collection without the approval of the Division of Graduate Studies. Before beginning any research with humans, vertebrate animals, or biological specimens (e.g., tissues, stem cells/cell lines, blood), students must review the Human and Animal Protections (Office of Research and Sponsored Programs/HAP) website (http://research.sfsu.edu/protocol) for institutional regulations. This is a federal requirement.

Registration and Grading Procedures for Culminating Experience Courses
To register for a Culminating Experience course, a student must have a 3.0 GPA in all post-baccalaureate course work completed, as well as an approved Advancement to Candidacy (ATC) form and Proposal for Culminating Experience (PCE) on file in Graduate Studies. Status of the ATC and Proposal for Culminating Experience approval can be found by accessing SF State Gateway on the web.

A student who does not complete the Culminating Experience after the “grace” semester following enrollment in the Culminating Experience course, is required to maintain continuous enrollment either through the College of Extended Learning (CEL) or enroll in a regular university course on advisement of faculty. The student must enroll in a zero unit Culminating Experience Continuous Enrollment (http://grad.sfsu.edu/content/continuous-enrollment-requirement) courses through CEL, and adhere to the following processes:

- Enroll in the Culminating Experience Continuous Enrollment course under your college name: BUS 499, EDUC 499, ETHS 499, HSS 499, LCA 499 or SCI 499.
- Enroll in CEL 499 before the university’s add/drop deadline (the add/ drop deadline can be found on the Registrar’s Office.
- Committee Chair should submit a grade change to the Registrar’s Office upon completion of Culminating Experience requirements.

Enrollment in the CEL CE course provides students access to SFSU libraries, discipline-associated laboratories and facilities, and Culminating Experience advisors.

Proof of Completion
Completion paperwork will only be accepted with original faculty signatures and must indicate the date the culminating experience requirements were completed. The completion date of the Culminating Experience must meet deadline requirements for the term and application for graduation is filed (last date of final exams). If not, the student will be denied graduation and must reapply and pay the Application for Award of Degree fee again for the subsequent term.

Dates of Completion
The Culminating Experience and all other requirements must be met by the last day of final exams. All dates of completion are posted on the Division of Graduate Studies website (http://grad.sfsu.edu/content/student-deadlines).

Application for Graduation
Candidates for degree must file an application for graduation in accordance with the University calendar. Degree candidates must have both an approved Advancement to Candidacy (ATC) form and Proposal for Culminating Experience (PCE) form on file and a cumulative and an overall ATC GPA of a 3.0 or higher to be eligible to apply for graduation. Students can check ATC and CE approval status through the Student Center by accessing SF State Gateway on the web.

The Application for Award of the Graduate Degree must be completed online by accessing SF State Gateway on the web. It is the student’s responsibility to verify the correct diploma name and address at the point of submitting an application for award of degree. Any errors on the diploma that need correction after issuance will result in additional reissuance fees.

Students graduate at the end of any semester – fall, spring, or summer. The Graduate Commencement (graduation) ceremony occurs once a year at the end of May. Students who wish to participate in the University Commencement ceremony must rent a cap, gown, and hood from the SF State Bookstore. Students can link to the graduate student-specific Commencement website from the main University web page or on the Graduate Studies website for additional information.

If a candidate does not complete the requirements as planned in a particular semester, he/she must submit a new application for graduation and pay the application fee again to be considered in a subsequent semester. The Division of Graduate Studies cannot extend or switch terms for applications for graduation.

Progress Toward Degree
Graduate students must make continuous satisfactory progress toward their degree by completing a minimum of six units each year, not including summer session. Departments or programs have the right to require that students complete more than the six units each year. Cohorted professional programs may require that students complete specified courses in sequence and maintain full-time enrollment. Graduate students who are enrolled, but not taking courses leading to the degree, may be disqualified by the department or the dean of Graduate Studies.

Title 5 of the California Code of Regulations requires that a master's degree shall be completed in no more than seven years. No more than seven years may elapse from the first semester of enrollment after admission and completion of the degree requirements. This is the maximum time allowable. No extensions are granted past seven years. Students working full time should be able to complete a 30 unit program in five years, taking six units each year. Some programs requiring more than 30 units may take proportionally longer to complete, but no extensions will be granted past seven years. Programs may require that students complete all coursework within a shorter time period provided the curriculum, requirements, and timelines are clearly stated in the program materials and the sequence of course offerings is adequate for students to meet the required time to completion. Professional programs may require that students maintain continuous enrollment throughout their programs and complete courses in sequence as required for licensure or certification. See department handbooks for requirements.
If coursework on the student’s Advancement to Candidacy (ATC) becomes outdated while the student is in good standing and making progress toward degree, the student may submit, with department approval, a petition to substitute another course (one already completed or which will be completed in the future) for the one which is outdated. This substitution is allowed only when the student is eligible for graduation.

Extension of Seven-Year Limit

Students, who for documented, serious and compelling reasons, cannot complete their degree within the seven-year limit, may request one extension. Extensions cannot exceed one year. Students requesting an extension must be in good academic standing and have validation for all expired coursework exceeding seven years. Students requesting an extension after enrollment in the culminating experience will be required to enroll in the culminating experience continuous enrollment program, either in regular university or the College of Extended Learning, depending on the program expectations for enrollment.

Graduate students who have left the University for two or more consecutive semesters must reapply to the University. Any courses to be used toward the degree will be determined jointly by the program and the dean of Graduate Studies. Outdated coursework (excluding transfer credits) may be validated by examination, retaking the course, substitution of coursework, demonstration of currency in the field, or other demonstration of competency in the relevant course or subject field as determined by the major department and approved by the dean of Graduate Studies.

Students who left the University after enrolling in the Culminating Experience must 1) submit a Petition for Extension for Seven-Year Limit; 2) reapply to the University; 3) submit documentation of progress on the Culminating Experience; and 4) enroll as a matriculated student or through the Continuous Enrollment program. Any student who has reached the seven-year limit and has not enrolled at the University for more than two semesters may be required to take additional coursework in the field. The Seven-Year Limit petition is filed with the dean of Graduate Studies. Transfer credit that exceeds seven years may not be used to meet degree requirements.

The following chart provides examples of the dates of expiration of the work specified on the ATC for the recommended five-year completion time with the maximum extension to the seven-year limitation:

<table>
<thead>
<tr>
<th>First Requirements on Graduate Admission</th>
<th>Five Year Completion Date</th>
<th>ATC Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2010</td>
<td>Spring 2015</td>
<td>January 2017</td>
</tr>
<tr>
<td>Summer 2010</td>
<td>Summer 2015</td>
<td>June 2017</td>
</tr>
<tr>
<td>Fall 2010</td>
<td>Fall 2015</td>
<td>August 2017</td>
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<tr>
<td>Spring 2011</td>
<td>Spring 2016</td>
<td>January 2018</td>
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<tr>
<td>Summer 2011</td>
<td>Summer 2016</td>
<td>June 2018</td>
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<td>Fall 2011</td>
<td>Fall 2016</td>
<td>August 2018</td>
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<td>Spring 2012</td>
<td>Spring 2017</td>
<td>January 2019</td>
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<tr>
<td>Summer 2012</td>
<td>Summer 2017</td>
<td>June 2019</td>
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<tr>
<td>Fall 2012</td>
<td>Fall 2017</td>
<td>August 2020</td>
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<td>Spring 2013</td>
<td>Spring 2018</td>
<td>January 2020</td>
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<td>Summer 2013</td>
<td>Summer 2018</td>
<td>January 2020</td>
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<td>Fall 2013</td>
<td>Fall 2018</td>
<td>August 2020</td>
</tr>
<tr>
<td>Spring 2014</td>
<td>Spring 2019</td>
<td>January 2021</td>
</tr>
<tr>
<td>Summer 2014</td>
<td>Summer 2019</td>
<td>June 2021</td>
</tr>
</tbody>
</table>

Planned Educational Leave of Absence

Continuing graduate students who have been officially admitted to, and who are actively pursuing a degree and/or credential program may qualify to absent themselves from enrollment in the institution for periods up to two academic years and still maintain the option of continuing student status. As a consequence of a leave of absence, it is expected that a student will improve his/her ability to complete the graduate degree program. A petition for the leave must clearly demonstrate that during the absence from the University the student will pursue educational activities relevant to his/her program. Requests for leave due to health, financial, or other personal reasons, or matriculation at another institution are not recognized for the purpose of granting a leave of absence. In the latter instances, students would need to reapply for admission when they are ready to resume their studies in the University. Continuing graduate students can be absent one fall or spring semester during a specific academic year and maintain their eligibility. Students do not have to submit an Application for Planned Educational Leave unless they plan to be absent for two consecutive semesters, excluding summer.

To be eligible for an educational leave of absence, a graduate student must:

- be a U.S. citizen or resident alien (foreign students ineligible);
- have been officially admitted to a master’s and/or credential program offered by the University;
- have an Advancement to Candidacy (ATC) on file in the Division of Graduate Studies office or plan to complete Credential Program on file in the Credentials Office in the College of Education;
- be in good academic standing;
- have completed acceptable coursework (at least nine units) toward the identified objective prior to the effective date of the leave; and
- attach a plan of study showing a relationship with degree focus.

Such a planned academic leave does not change the beginning or ending dates of the seven-year completion of degree requirements for master’s degree candidates. For further information, contact the Division of Graduate Studies office.

Change of Graduate Program Concentration, or Credential

Changing from one graduate degree program to another or from one credential program to another is a serious decision that should be given thoughtful consideration. Graduate students who meet the eligibility requirements, must apply to the new Graduate Program and formally be admitted to the new degree program, concentration, or credential. Only
current graduate students who have a cumulative 3.0 grade point average in all coursework taken while in post-baccalaureate standing at SF State are eligible to apply to a new graduate program.

Students who wish to change concentrations within the same academic department must in good academic standing and must fill out the Change of Graduate Program Concentration. Students are only permitted to change graduate program concentrations if the new concentration is in the same degree program. If a change of graduate program concentration is approved, a new ATC form is required.

If students wish to change from a master’s program to a credential-only program or from a credential-only to a master’s program, they must formally apply to the new credential or master’s program or credential, meet the eligibility requirements and follow the procedures as described.

To change a graduate program concentration or add a credential:

- Complete the Request for Change of Concentration (http://grad.sfsu.edu/content/current-students/change-graduate-program-form) form or a Request for Change of Credential Only.
- Attach transcripts from SF State and previous work to include last 60 units of coursework, and provide a transcript documenting an earned bachelor’s degree.
- Attach all supplemental admission materials requested by the new department.
- No more than 12 units of already completed courses can be counted toward the new graduate degree.

The new concentration coordinator/chair completes the department recommendation section of the form and submits it to the Division of Graduate Studies to determine if the student is in good standing (3.0 GPA) and to give final approval or denial. The University and department hold the right to refuse Change of Graduate Program Concentration or Credential requests and admission to a program based on programmatic, resource, faculty scholarship focus, and faculty/student academic needs.

**Academic Standards**

**Satisfactory Scholarship**

Graduate students are expected to develop their full potential as scholars and to maintain a 3.0 GPA (based on a 4.0) that indicates high scholastic ability and achievement. All courses completed by a student after award of the baccalaureate degree count in the overall graduate grade point average and are used in determining a student’s academic standing. The 3.0 GPA standard applies to all students in post-baccalaureate status including credential and second baccalaureate programs.

Only the grades of A, A−, B+, B, B−, C+, C, and CR are acceptable in courses on the Advancement to Candidacy (ATC) form. Graduate programs have the right to require specific grades (B or better) for specific courses that are appropriate to the discipline. Students taking upper-division undergraduate courses may be required by the program to earn a B or higher if counted on the ATC. Requirements for specific grades must be clearly indicated in writing in the Bulletin, on the program website or in student handbooks. Undergraduate level CR courses are not allowed on the ATC because the grade is translated as a C−. The number of ATC courses taken for CR grades is restricted (see ATC Grading Standards (p. 122) above).

**Incompletes**

Students who do not complete required coursework during the scheduled time period must complete a written contract with the instructor to complete the work within the next academic year or earlier as stipulated by the faculty member. For example, a course granted an incomplete in a fall semester must be completed and a grade submitted by the end of the next fall or earlier whether or not the student is enrolled in the University. Only students who are in good academic standing in the course and have completed at least 75 percent of the required coursework are eligible to contract for an incomplete. The incomplete is shown on the transcript as an I. If work is not completed during that period, the incomplete is changed to an IC (incomplete changed) that is calculated as an F (zero grade points). Graduate students planning to pursue a doctoral degree should consider that a pattern of incompletes, even if completed within the time period, may be viewed negatively by an admissions committee.

**Repeat of Courses as a Graduate Student**

A graduate student who has received a grade of B− or higher, or a grade of CR, may not repeat a course unless the course is described in the current SF State Bulletin as repeatable for credit. If a course is repeated, both grades remain on the transcript, and the GPA for both courses is averaged for the overall GPA. The higher grade is used on the Advancement to Candidacy form (ATC). Graduate students who receive a grade lower than B, or grades of IC, W, and U, may repeat that course only once to earn a grade if a course repeat is permitted by the program. Requests by graduate students to repeat a course to improve the GPA are seldom granted by programs because it reflects lack of progress toward degree. Repeated attempts to achieve the required GPA to meet graduate standards are not allowed. Departments may refuse to allow the repeat of a course to improve the GPA.

**Attendance**

The instructor may consider regular attendance when assigning grades, and the requirement must be stated in writing as part of the course requirements. Most professional programs leading to licensure or certification require that students attend all class and laboratory sessions. See program handbooks for policies.

**Withdrawal from Courses**

Students may add or drop courses by Gator Registration without a W appearing on the transcript if they withdraw on or before the "drop" deadline. After the withdrawal deadline, a withdrawal will show as a W on the transcript. Students must check the university academic calendar for deadlines. Graduate students planning to pursue a doctoral degree should consider that a pattern of withdrawals may be viewed negatively by an admissions committee. Students who register for a class, but who do not attend or who drop the class without formally withdrawing, may be given a WU (withdrawal unauthorized), which is calculated as an F.

**Graduate Student Academic Standing**

All students who have earned an undergraduate degree and who are enrolled as graduate (classified or unclassified), credential, second baccalaureate and certificate (graduate and undergraduate) students are held to these academic standards.

**Good Standing**

Students must maintain a semester and cumulative grade point average of 3.0 (B) or better in every semester.

**Probation**

Students will be placed on academic probation if the overall, San Francisco State University, or semester grade point average falls below 3.0 (B). The Registrar will place an academic hold on the student record and the student will not be allowed to enroll in Early Priority Registration.
Students are notified by email of probationary standing and must meet with their academic advisor and complete the Graduate Probation Advising Form (http://grad.sfsu.edu/content/current-students/probation-and-mandatory-advising). After grades are published by the Registrar at the end of the semester during which the student is on probation, one of two actions will occur:

1. the student attains a 3.0 in the overall and semester GPA and is eligible to register for classes in the Final Priority Registration period, or
2. the student does not attain a 3.0 GPA in the overall or semester GPA and the student is subject to disqualification and is not allowed to register in the Final Priority Registration period.

**Disqualification**

Students who are disqualified from the graduate degree, credential, or any certificate program and from further enrollment in the University may file for reinstatement by completing the Petition for Reinstatement Following Disqualification (http://grad.sfsu.edu/sites/default/files/assets/forms/petition-for-reinstatement-following-dq.pdf). Faculty and the program graduate coordinator may approve the student to continue the program for one semester or deny the student the option to continue in the program. Students approved to continue in the program must meet the stipulated requirements or conditions set forth by the program. Denial of a probation petition is the right of the faculty of the graduate program.

Faculty may deem a student unable to continue the program and may not approve reinstatement even if a 3.0 GPA is achieved. Students reinstated after disqualification will not be allowed to enroll in classes for the following semester until grades have been posted. Following the posting of grades, students who attain a 3.0 will be allowed to register for classes in the Final Priority Registration period. Students who do not meet the 3.0 GPA requirement are disqualified and must improve the GPA through CEL. Review the Readmission of Disqualified Students (p. 127) section of this Bulletin for more information.

The student may not take lower division, non-academic or activity courses to improve their GPA. Coursework not related to the field of study, lower division courses or coursework completed at another university or college cannot be used to improve the GPA of an SF State graduate student who is on probation or disqualified.

**Administrative Probation**

A graduate degree, credential or certificate student may be placed on administrative probation by the Board of Appeals and Review or dean of Graduate Studies for any of the following reasons:

- Withdrawal from all or a substantial portion of a program of studies in successive terms. (A student whose withdrawal is directly associated with a documented chronic or recurring disability or its treatment is not to be subject to administrative/academic probation for such withdrawal.)
- Repeated failure to progress toward the stated degree objective, or another program objective.
- Failure to comply, after due notice, with an academic requirement or regulation that is routine for all students or a defined group of students.

**Administrative Disqualification**

A graduate student who has been placed on administrative probation may be disqualified from further attendance if:

- The conditions for removal of administrative probation are not met within the period specified.
- The student becomes subject to academic probation while on administrative probation.
- The student becomes subject to administrative probation for the same or similar reason for which he/she was previously placed on administrative probation.
- In addition, an appropriate campus administrator may disqualified a student who at any time during enrollment has demonstrated behavior so contrary to the standards of the profession for which the student is preparing as to render him/her unfit for the profession. In such cases, disqualification will occur immediately upon notice to the student, which shall include an explanation of the basis for the action, and the campus may require the student to discontinue enrollment as of the date of the notification.

**Readmission of Disqualified Students**

Academically disqualified students may, after at least two semesters have elapsed, apply for readmission to the University providing evidence that they have removed the academic deficiencies, or resolved the problems which may have caused the disqualification. The work taken to eliminate an academic performance deficiency at this institution must be taken through the College of Extended Learning. Courses taken to improve the GPA may not be courses required for the degree, but should be relevant. If disqualification resulted from any other reasons than academic performance, approval must be obtained from the unit of the University which recommended the disqualification action. Students disqualified from another institution, including other CSU campuses, may not be admitted to SF State unless it can be demonstrated that the cause of the disqualification has been eliminated (additional coursework with good grades, etc.) and the student is otherwise eligible to return to the institution of disqualification. Readmission to the graduate program from which the student was disqualified is not guaranteed.

**Declassification from the Degree Program**

A student may be declassified (disenrolled) from a graduate degree program for a range of reasons even if the GPA is above a 3.0. Reasons for declassification may include, but are not restricted to: unprofessional conduct; behavioral issues that interfere with the learning of others; failure to make progress toward the degree as set forth by the University and program policies; failure to meet grade requirements to maintain good standing in the program and/or University; and/or the department/program faculty determine that the student is incapable of completing degree requirements at the level expected of a graduate student in the discipline.

Failure to make progress toward the degree as set forth by the University and program policies (e.g., not taking courses related to the degree, not meeting program requirements to take a required number of courses each year, repeated “I” or “W” requests);

- Failure to meet expectations for discipline-required culminating experience with little improvement after multiple attempts or drafts;
- Failure to meet grade requirements to maintain good standing in the program and/or University;
- Plagiarism or academic dishonesty identified (cases are referred to Student Conduct Office).

The declassification request must be initiated by the major department with support from the department/program chair and college dean or designee. Requests are submitted to the dean of Graduate Studies for
final action and official notification to the student and the Registrar’s Office. Declassified students will not be permitted to enroll through regular University or Open University in any undergraduate or graduate courses in the program or degree from which they were declassified. Unless declassification was related to conduct issues that interfere with campus interactions, declassified students are eligible to apply to a new program through CAL STATE APPLY (https://www2.calstate.edu/apply), pay the application fee, and be accepted as a student by the department/program.

Grievances and Appeals

Grade Appeals
The grade appeal process is managed within the College offering the course under appeal. A student who feels the grade posted on the transcript is not a fair representation of the work completed may request a review by the instructor. The request must be made during the semester of attendance or immediately following the semester in which the grade was assigned. If the instructor and the student can work out an agreement, a petition for a grade change can be submitted. If an agreement is not reached, the student should consult with the department chair or college dean for the formal procedures for filing a grade appeal. Students should contact the department or college in which the class was offered for a copy of the formal grade appeal process that is conducted at the college level. Refer to senate.sfsu.edu/policy/grade-appeal-practices-procedures (http://senate.sfsu.edu/policy/grade-appeal-practices-procedures).

Retroactive Withdrawal and Grade Change
Students may retroactively withdraw from the University or courses for serious and compelling reasons or in verified cases of extenuating circumstances (e.g., accident, illness, etc.) that prevented submission of a regular withdrawal petition by the deadline in the Class Schedule. A student wishing to request a retroactive grade change must initiate the request during the semester in attendance immediately following the semester when the original grade was assigned or the course in question was offered. A retroactive withdrawal or grade change cannot be used as a way to improve poor academic performance in a course(s) or remove “F” grades due to academic dishonesty. For more detailed procedures and appropriate petition forms, refer to dos.sfsu.edu/content/sf-state-student-withdrawal-services (http://dos.sfsu.edu/content/sf-state-student-withdrawal-services).

Grievance Procedures
A graduate student who has problems arising from academic evaluation, degree requirements, or general policies and procedures are strongly encouraged to follow the informal concerns and complaints process as outlined at sfsu.edu/~vpsa/complaints (http://www.sfsu.edu/~vpsa/complaints). Graduate students should discuss grievances first with a graduate major advisor or graduate coordinator Graduate coordinators are listed on the Graduate Studies website (http://grad.sfsu.edu/content/graduate-coordinators). If a student wishes to appeal a decision, he/she should then consult with the department chair, the college dean of Graduate Studies, in that order. Should questions arise beyond this point, the University dean of students or designee may be consulted for advice.

If after following the informal process, the concern or complaint remains unresolved, students may pursue a formal complaint. For questions about the process, contact Eugene R. Chelberg, Associate Vice President for Student Affairs/Enrollment Management, SSB 403, (415) 338–2916 or concerns@sfsu.edu.

Graduate Student Achievement Opportunities

California State University Research Competition
Each spring semester, the CSU Student Research Competition provides an opportunity for both undergraduate and graduate students to present their outstanding research projects and creative works in a refereed or formal academic competition. Students who are currently enrolled, as well as those who graduated in the previous spring, summer, or fall semesters, are eligible. The system-wide competition is held at a different CSU campus in May of each academic year and the application deadlines are in mid-February. SF State will select up to 10 campus winners to compete in the CSU system-wide competition. SF State students have done very well in this competition in the past. Winners receive cash awards.

Graduate Research and Creative Works Showcase
The Graduate Research and Creative Works Showcase is an annual exhibition of the diverse work of SF State’s innovative and talented graduate students. Student presentations are typically in the form of a poster or visual display that depicts the purpose, methods, and results of their research or creative project. Participants and their faculty mentors are also invited to attend a dinner reception following the showcase where registered students are eligible to win prizes. The Graduate Research and Creative Works Showcase is held each spring following the CSU Research Competition.

Graduate Student Award for Distinguished Achievement
This award is conferred on master and doctoral students who have a distinguished record of academic performance and degree-related service in their graduate program. Selection for the award is based on criteria that include academic performance, scholarly work, and service determined meritorious by the faculty in the respective graduate program areas. Criteria utilized vary from discipline to discipline consistent with standards of excellence. The selection of the awardees for the year is made each spring by the faculty of each department. Recipients are recognized at the Graduate Recognition Ceremony in May and are issued a Certificate of Achievement. The award is noted on the student’s official SF State transcript.

Western Association of Graduate Schools Thesis Competition and Technology Innovation Award
Each spring the Division of Graduate Studies invites students to submit their master’s theses and dissertations to compete for the WAGS master’s Thesis Award or WAGS Technology Innovation Award. These prestigious awards represent the best and highest quality of master’s and doctoral student work. One nominee for each award will be submitted by SF State to WAGS to compete with student entries from western universities and colleges in the United States and Canada. The national winner is awarded prize money and a trip to the WAGS annual conference.

Graduate Student Registration

Graduate Student Registration Policies
Graduate Studies does not oversee the registration process, adding or withdrawing from classes, or grade changes. Contact the department graduate coordinator and/or the registrar at One Stop. See Bulletin section General Policies and Procedures: Registration Policies for information on registration for classes and withdrawal.
Graduate Student Registration

Full-Time Unit Load for Graduate Students

Fall and Spring Semesters

Full-time study for graduate students during the fall and spring semesters is defined as follows:

- For payment of fees, 6.1 units and above
- For those receiving financial aid, 8 units and above
- For international students, 8 units and above
- Typical full-time load, 9–12 units per semester

The University reserves the right to limit the number of units for which a student can register in the initial registration period. The maximum unit load with permission of designated faculty advisor is 16 units. Students seeking to take more than 16 units in a semester must have a minimum GPA of 3.25 overall or in any semester. To petition to take more than 16 units, submit the Request to Exceed Regular Academic Unit Load form (http://grad.sfsu.edu/sites/sites7.sfsu.edu/grad/files/assets/forms/exceed-units.pdf) to the major advisor, college graduate coordinator, and dean of Graduate Studies. After appropriate signatures have been obtained, the form is forwarded to the Registrar’s Office. In general, a post-baccalaureate student will not be given permission to exceed 18 units in any semester with the exception of cohorted professional programs. For further information, review the Academic Load (p. 145) section of this Bulletin.

Summer Semester

Graduate students may enroll in a maximum of six units in a five-week summer session, nine units in the eight or ten-week summer session, and 11 units in any combination of summer sessions (R1, R2, R3, and R4).
Some students in 12 month professional programs are excluded from this policy.

Graduate Course Enrollment Priorities

Academic Departments have the authority to assign enrollment priorities to their students wishing to enroll in graduate-level courses. A priority system is used to ensure that majors in the program can access courses needed to complete the degree program in a timely manner. From a pool of individuals, the department would normally be expected to grant admission to the class in the following rank order:

- graduate majors of the department/program;
- classified graduate students from other departments including Interdisciplinary Majors; and
- advanced undergraduate students.

It is the student and faculty member’s responsibility to determine that prerequisites for graduate courses have been met.

Graduate Students Enrolled in Upper Division Courses

Graduate students enrolled in upper division courses are expected to complete additional coursework and to meet academic standards above the requirements delineated for undergraduate students. The faculty member teaching the course is responsible for assigning the additional coursework and/or academic standards required of graduate students. The additional requirements for graduate students should be stated on the syllabus or the graduate student should be informed of the requirements in writing within the first two weeks of the semester.

Graduate Paired Courses

A paired course is a graduate course paired with an undergraduate course covering similar content. The paired course is taught by the same instructor, on the same days and times, and in the same class environment. Graduate students must enroll in the graduate-level of the paired course, numbered (700–889) and complete all graduate level expectations as described in the course syllabus. A paired course taken at the undergraduate level may not be repeated for credit at the graduate level.

Independent Study Courses

Most graduate programs have an 899 Independent Study course. Typically, this is an intensive study of an identified problem or subject which is carefully planned in advance, developed, and completed under the direction of a tenured/tenure-track faculty member (see Graduate Faculty (http://bulletin.sfsu.edu/graduate-education/admission)). The 899 Independent Study may not be used to improve the GPA. Graduate students may not enroll in an Independent Study 699 (undergraduate) course.

While each department may establish its own specific criteria for enrollment in an 899, the following are basic requirements or guidelines:

- The independent study is usually of a research or creative nature.
- The student must have a cumulative post-baccalaureate grade point average of 3.25 or higher.
- An independent study course is available only to students who have done previous work in the department and is restricted to conditionally classified or classified graduate students in the program. In unusual cases, a student in a complementary major may enroll in an 899 in another department provided there is a clear association with the student’s degree plan.
- Prior to enrollment in the course, the student, with support of the faculty member, must develop a written plan of study detailing the focus of the independent study, the assignments required and the manner of assessment of the work completed in the form of a project, examination or performance.
- The course may not be used to replace required program-specified Advancement to Candidacy (ATC) core courses or to satisfy additional coursework requirements required as a consequence of a seven-year time extension to complete requirements for a master’s degree.

A petition for an independent study form may be obtained from the major department office and must be reviewed by the Division of Graduate Studies. Independent study contracts must be filed in the department office and are subject to audit by the CSU.

Continuous Enrollment Requirements

Prior to Enrolling in the Culminating Experience

Students who leave the University for two or more consecutive semesters (not including summer session), or who have attended another college or university during their absence, must reapply for admission to the University through CAL STATE APPLY (https://www2.calstate.edu/apply), pay the application fee, submit any new transcripts other than
the SF State transcripts, and reapply to the program in which they were enrolled. Any student who does not maintain continuous enrollment status in the University must meet curriculum requirements in effect at the time of reentering the graduate program or the semester in which a new Advancement to Candidacy (ATC) form is filed. Readmission to the degree program is not guaranteed.

**Following Enrollment in the Culminating Experience**

Students who have registered for the Culminating Experience Course through the regular university will not be required to enroll in the University during the following semester if they have not completed their Culminating Experience. After this one semester grace period ends, all graduate students are required to maintain continuous enrollment at SF State through the College of Extended Learning (CEL) or regular University until the degree is earned. Students in the CEL course will have access to library and discipline-specific laboratories. The department “time to degree” is in force. Students in the Culminating Experience continuous enrollment program should maintain frequent contact each semester with their faculty member and meet all timelines set forth in the culminating experience proposal document.

**College of Extended Learning**

**Special Sessions**

A limited number of University degree, credential, and certificate programs are offered in Special Sessions through the College of Extended Learning (CEL). Applicants to a Special Sessions graduate program must complete a two-part process:

1. Apply for admission to SF State Graduate Studies online through CAL STATE APPLY (https://www2.calstate.edu/apply) and
2. Apply to the program offered by an academic department via the College of Extended Learning.

Once admitted to the University and the program, students register and enroll through CEL in the courses for that specific program. Special Sessions students have matriculated status and must meet all university academic performance standards, graduation requirements, and observe all university conduct expectations. Graduation eligibility is determined by the Division of Graduate Studies.

The list of current and anticipated Special Sessions programs, grouped by category (degree, credential, and certificate), appears in the College of Extended Learning section (http://bulletin.sfsu.edu/colleges/extended-learning) of this Bulletin. The following website provides additional information: cel.sfsu.edu (http://www.cel.sfsu.edu).

**Open University**

Students may apply no more than six units taken through Open University enrollment toward a 30 unit master’s degree, or proportionally more for a higher unit degree (no more than 12 units), provided they are admitted to the program and the units are accepted by the graduate coordinator of the degree program at the time of admission [review section on Advancement to Candidacy (ATC) (http://bulletin.sfsu.edu/graduate-education/academic-policies-procedures)] for complete information on how many transfer or Extended Learning units can be used on the ATC. Students taking courses through Open University related to a specific degree program should seek advisement from the program and apply for admission before completion of Open University courses. Completing Open University courses with a GPA of 3.0 or greater does not guarantee admission to a graduate degree program. Students taking courses through Open University to improve their GPA may not take courses required for the graduate degree from which they were disqualified.

**Graduate Student Financial Aid**

**Student Fees**


Depending on need, graduate students admitted in conditionally classified, classified or credential status are eligible for loans, grants, scholarships, and federal work-study. Financial assistance specifically for graduate students is limited. Students should carefully review all loan contracts to determine future debt/load and ability to repay the loans within the prescribed time. A limited number of Graduate Teaching Associate or Graduate Assistant positions are available. Contact the department directly for information.

**Graduate Equity Fellowship**

The purpose of San Francisco State University’s Graduate Equity Fellowship program (http://grad.sfsu.edu/content/finance/graduate-equality-fellowship) is to increase diversity by encouraging outstanding students from educationally or economically disadvantaged backgrounds to complete master’s and doctoral degrees at SF State. Second baccalaureate, credential-only and certificate students are not eligible.

**Provost Scholar Award**

The Provost Scholar Award provides selected newly admitted domestic, non-resident students with an out-of-state tuition waiver for one year. Contact the department to which you are admitted to advise them that you are a domestic non-resident applicant and wish to be considered for the Provost Scholar Award. Awards are granted based on academic excellence, standardized test scores (if required for department admission), department-required essay or statement of purpose, and letters of recommendation. Awardees will be notified of the award by the Division of Graduate Studies.

**Financial Aid**

Financial Aid may be available to you. Applying begins with the Free Application for Federal Student Aid (FAFSA). Please visit SF State’s Office of Student Financial Aid (http://www.sfsu.edu/~finaid) for additional information.

**State University Grant (SUGs)**

**State University Grant (SUGs)** is a grant for classified, conditionally classified, and credential, California resident graduate students, paying resident tuition and fees. There is a limited amount of funding each year and all awards are conditional based on the availability of funds from the State. The SUG is designated specifically to pay a portion of students’ basic tuition and fees. Any other fee paying financial aid and/or resource you receive will affect the student’s eligibility for SUG. Learn more on our State University Grant page. (http://grad.sfsu.edu/content/state-university-grant)

**TEACH Grant**

The TEACH Grant Program provides grants of up to $4,000 a year to students who are completing or plan to complete course work needed to begin a career in teaching.

Graduate Student Registration

- CSU TEACH Grant Home Page (http://www.calstate.edu/teachered/scholarships/teach-grant.shtml)

Alumni Scholarship
The Alumni Scholarship Association will grant scholarships of $1,000 each to students who will have SF State graduate status each fall. Applicants are required to have a minimum cumulative grade point average of 3.25, and must be enrolled full-time (8 units or more) for the fall semester. Scholarships are merit and need based. For more information, visit sfusu.edu/~alumni/scholarship.htm (http://www.sfsu.edu/~alumni/scholarship.htm)

Nationally Competitive Graduate Fellowships
The Fellowships Office assists graduate students applying for nationally competitive fellowships, as well as system-wide CSU scholarships and awards. These awards may include funding for graduate studies, as well as research experience and prestigious internships in the U.S. and abroad. Competitive applicants are passionate, engaged students with strong records of academic achievement, leadership, and public service activities. To explore the possibility of pursuing a nationally competitive fellowship, search the Graduate Fellowships website for fellowships in your field or area of professional interest (sfsu.edu/~fellows1/grad_fellowships (http://www.sfsu.edu/~fellows1/grad_fellowships)), then make an appointment with Dr. Joy Viveros jviveros@sfsu.edu.

Students who intend to go on for a Ph.D. should also consult the SF State California Pre-Doctoral Program website (Dr. Viveros is the SF State Coordinator of this program): sfsu.edu/~fellows1/predoc (http://www.sfsu.edu/~fellows1/predoc).

Graduate Assistantships
Graduate assistantships are designed to provide professional experience and financial assistance to qualified graduate students. Positions are posted each semester by departments offering these opportunities. These positions may involve supporting instructors in courses and laboratories, supporting office functions and duties, preparing course or laboratory materials, and tutoring or assisting students. To be eligible, a student must meet the following minimum requirements:

- Be a conditionally classified or classified graduate student in good standing who is actively pursuing a graduate degree and has an overall and semester GPA of 3.0 or above while in post-baccalaureate status.
- Be registered for a minimum of three units at SF State directly applicable to the graduate degree or have registered for a Culminating Experience course in the previous semester and received an "RP" grade. Students enrolled in the CEL 499 continuous graduate enrollment program are eligible to work as a GA for one semester. International students in the grace semester following enrollment in a Culminating Experience course must complete the Request for Approval to Take a Reduced Course Load Due to Thesis/Project/Recital/Oral Defense/Exam form (https://oip.sfsu.edu/sites/default/files/f1/forms/RCLThesis.pdf) two weeks prior to the beginning of this semester and submit it to the Office of International Programs.
- Not be assigned duties in a course in which academic credit is being earned.
- Not be enrolled with an academic unit load which would be incompatible with the demands of the assistantship.
- Not otherwise currently employed at SF State in any lecturer or staff category.

- The appointment combined with any other student employment at SF State may not exceed 20 hours per week.
- Not be appointed for more than a total of four semesters for students in a 30 unit program, or proportionately more for programs that exceed 30 units, up to a maximum of six semesters.

Graduate Teaching Associate Positions
The University, through its major departments, provides graduate students with part-time employment as teaching associates in courses related to their area of advanced study. The appointments usually involve teaching classroom and/or laboratory courses, assessing student performance, and tutoring students. The students assist faculty with field experiences, supervision, and/or research projects. To be eligible, a student must as a minimum:

- Be admitted to classified or conditionally classified status in a graduate degree program at SF State and have a cumulative grade point average of 3.0 (B) or better in all course work taken at SF State while in post-baccalaureate status.
- Be a degree-seeking graduate student in the academic department in which she/he is employed to perform instruction.
- Not be assigned to a course in which academic credit is being earned.
- Have thorough knowledge and understanding of the subject matter of the discipline in which the assignment is made.
- Possess the ability to communicate and relate well to others within the academic environment and the ability to instruct and constructively evaluate student performance.
- Be registered at SF State during the term of appointment in a minimum of three units of course work directly applicable to the graduate degree or have registered for a Culminating Experience course in the previous semester. Students enrolled in the CEL 499 continuous graduate enrollment program are eligible for one semester.
- Not be appointed for more than four semesters.
- Not teaching graduate level courses.

California Pre-Doctoral Program
The California Pre-Doctoral Program is designed to diversify the pool of University faculty by supporting the doctoral aspirations of students who are upper division undergraduates or graduate students on a California State University campus, economically or educationally disadvantaged, with focused research interests, and an interest in a university faculty career. See sfusu.edu/~fellows1/predoc (http://www.sfsu.edu/~fellows1/predoc).

Chancellor’s Doctoral Incentive Program
This program provides student loans to a limited number of individuals pursuing full-time doctoral degrees at accredited universities throughout the United States. After participants receive their doctoral degrees and obtain a qualifying instructional position in the CSU, a portion of their loan from this program will be forgiven every year. calstate.edu/hr/cdip (http://www.calstate.edu/hr/cdip)
FEES AND FINANCIAL AID

Fees and Expenses

Schedule of Tuition and Fees 2017–2018

The following reflects applicable system-wide tuition and fees and nonresident tuition for the semester system. Cash, personal check, and certified check or money order may be used for payment of student tuition and fees. For credit card and electronic check payments, access the Bursar’s Office webpage at bursar.sfsu.edu (http://bursar.sfsu.edu) for more information.

Mandatory system-wide tuition fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fee. All listed fees, other than mandatory system wide fees, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees, the Chancellor, or the Presidents, as appropriate. Changes in mandatory system wide fees will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028–66028.6 of the Education Code).

Nonresident Tuition Fee (U.S. and International)

In addition to the regular tuition and registration fees listed above, nonresidents of the State of California must pay an additional $396 per unit (or fraction) for nonresident tuition fee. The total nonresident tuition fee paid per term will be determined by the number of units taken.

Open University (Concurrent Enrollment)

Fees for extension courses are subject to change without notice.

- Fee per semester unit $395.00

Fees are subject to change without notice. For the latest information on fees, go to the Bursar’s Office web page at bursar.sfsu.edu/ (http://bursar.sfsu.edu). For current information on Open University fees, call College of Extended Learning, (415) 338-1376.

Miscellaneous University Fees

<table>
<thead>
<tr>
<th>Miscellaneous Fees</th>
<th>Maximum Fee per Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application for admission or readmission payable by check or money order (non-refundable)</td>
<td>$55.00</td>
</tr>
<tr>
<td>Non-Refundable Late Registration Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Failure to meet administratively required appointment or time limit (late fee)</td>
<td>$20.00</td>
</tr>
</tbody>
</table>

Payment returned for any cause including check or electronic payment (The University reserves the right to refuse to accept electronic or personal checks from persons who have previously paid with invalid electronic payments or have written bad checks.) $20.00

Replacement of items lost or broken, including laboratory equipment (minimum charge $1.00) Cost

Transcript of Record $8.00
Graduation Fee $100.00
Binding Thesis $25.00

Library Overdue and Lost Item Fees: Books and Other Library Materials

Fees are computed on a per transaction basis. Overdue fees are computed from the time the material was due until the time the material is returned or declared lost.

<table>
<thead>
<tr>
<th>Library Overdue and Lost Item Fees: Books and Other Library Materials</th>
<th>$ per Transaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hourly or Overnight Loans for Items Placed on Reserve Status (whether in the Reserve Book Room or other areas of the library)</td>
<td></td>
</tr>
<tr>
<td>Per hour</td>
<td>1.00</td>
</tr>
<tr>
<td>Maximum per transaction</td>
<td>25.00</td>
</tr>
<tr>
<td>Hourly or Overnight Loans for Other Items (items not on reserve status)</td>
<td></td>
</tr>
<tr>
<td>Per hour</td>
<td>0.25</td>
</tr>
<tr>
<td>Maximum per transaction</td>
<td>10.00</td>
</tr>
<tr>
<td>Loans of One to Six Days</td>
<td></td>
</tr>
<tr>
<td>Per day</td>
<td>1.00</td>
</tr>
<tr>
<td>Maximum per transaction</td>
<td>25.00</td>
</tr>
<tr>
<td>Loans of Seven or More Days</td>
<td></td>
</tr>
<tr>
<td>Per day</td>
<td>0.25</td>
</tr>
<tr>
<td>Maximum per transaction</td>
<td>25.00</td>
</tr>
<tr>
<td>Lost Book, Periodical, Laptop Computer or other equipment or Media Fees</td>
<td></td>
</tr>
<tr>
<td>Replacement Cost + Processing Charge</td>
<td></td>
</tr>
<tr>
<td>Damage Fees</td>
<td>From 50 cents to Replacement Cost + Processing Charge</td>
</tr>
</tbody>
</table>

Note: Replacement Cost for books is based on a predetermined average cost of an academic book. At present the Processing Charge is $20.00 per item. Laptop Computer or other equipment replacement cost is actual cost for replacement.

Fee Payment Deadlines

Payment for Tuition and Fees must be received by the published Fee Payment Deadline to avoid any administrative late fees.

To remain enrolled in Priority Registration classes for the Fall, Spring, and Summer semesters, students must pay by the published fee payment deadline. Students who do not pay their fees by the published deadline are subject to enrollment cancellation.
Please refer to the Bursar's Office webpage at bursar.sfsu.edu (http://bursar.sfsu.edu) for information regarding current fee payment deadlines.

Financial Aid Fee Payment Deadlines
If the Office of Student Financial Aid notifies you that you have been awarded and you have accepted an offer of Financial Aid, excluding college work-study, your tuition and fee payment will be postponed until the third week of the semester. You may register for classes without paying tuition fees up front. Do not apply for the University's Installment Payment Agreement unless your aid has been cancelled. See Financial Aid Important Dates for more information. Aid must be disbursed by the third week of the semester to avoid the non-refundable administrative fee of $20.

If a student is found ineligible for financial aid after they have enrolled in classes or if the financial aid is not sufficient to pay tuition and fees in full, the student is responsible for paying the fees or unpaid balance before the third week of the semester. Please refer to the Bursar's Office webpage at bursar.sfsu.edu (http://bursar.sfsu.edu) for information regarding the current payment deadlines.

If you register for classes and decide not to attend SF State, you MUST drop all classes by the published refund deadline through the Student Center and/or in-person at the Registrar's Office. (See Refund Guidelines under Title IV – Return of Federal Financial Aid Fund Due to Withdrawal).

Installment Plans
All students who are eligible to enroll may use one of the installment plans offered by the university, with the exceptions of students with financial aid deferments, approved waivers or subsidies, or students who defaulted twice on their installment plan agreement in a previous semester. Students with outstanding financial obligations must pay their obligations before or at the time of their enrolling in the current semester's installment plan. For more information and a copy of the installment plan contract, go to the Bursar's Office webpage at bursar.sfsu.edu (http://bursar.sfsu.edu).

Tuition fees are subject to change without notice. The tuition fee is applicable to all CSU semester-system campuses except CSU Stanislaus. All students must pay regular tuition and fees. For the latest information on fees, please visit the Bursar’s Office web page (bulletin.sfsu.edu/fees-financial-aid/fees-expenses/www.sfsu.edu/~bursar).

Undergraduate – Regular Session—Fall and Spring

<table>
<thead>
<tr>
<th>Tuition and Fees</th>
<th>6.0 units or less</th>
<th>6.1 units or more (per Semester – Credit or Audit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fee</td>
<td>$1,665.00</td>
<td>$2,871.00</td>
</tr>
<tr>
<td>Campus Fees:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Body Center Fee</td>
<td>$82.00</td>
<td>$82.00</td>
</tr>
<tr>
<td>Recreation and Wellness Center Fee</td>
<td>$160.00</td>
<td>$160.00</td>
</tr>
<tr>
<td>Student Body Association Fee</td>
<td>$54.00</td>
<td>$54.00</td>
</tr>
<tr>
<td>Student Health Service Fee</td>
<td>$157.00</td>
<td>$157.00</td>
</tr>
</tbody>
</table>

Instructionally Related Activities Fee $118.00 $118.00
Health Facilities Fee $3.00 $3.00
Campus Service Card Fee $2.00 $2.00
Gator Pass $180.00 $180.00
Student Involvement and Representation Fee $2.00 $2.00
Total per semester $2,423.00 $3,629.00

1 Student has the option to opt out of paying this fee if the student chooses to by published Census date.

Undergraduate – Summer Session

<table>
<thead>
<tr>
<th>Tuition and Fees</th>
<th>6.0 units or less</th>
<th>6.1 units or more (Credit or Audit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fee</td>
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<td>$2,736.00</td>
</tr>
<tr>
<td>Campus Fees:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Health Service Fee</td>
<td>$73.00</td>
<td>$73.00</td>
</tr>
<tr>
<td>Recreation and Wellness Center Fee</td>
<td>$42.00</td>
<td>$42.00</td>
</tr>
<tr>
<td>Student Body Center Fee</td>
<td>$38.00</td>
<td>$38.00</td>
</tr>
<tr>
<td>Student Body Association Fee</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Instructionally Related Activities Fee</td>
<td>$9.00</td>
<td>$9.00</td>
</tr>
<tr>
<td>Campus Service Card Fee</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
<tr>
<td>Total per Semester</td>
<td>$1,776.00</td>
<td>$2,925.00</td>
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</table>

Tuition fees are subject to change without notice. The tuition fee is applicable to all CSU semester-system campuses except CSU Stanislaus. All students must pay regular tuition and fees. For the latest information on fees, please visit the Bursar’s Office web page (bulletin.sfsu.edu/fees-financial-aid/fees-expenses/www.sfsu.edu/~bursar).

Graduate

Graduate students in the College of Business will be charged an additional MBA Program Fee at a rate of $700 for students enrolled in 6.0 units or less or $1,200 for students enrolled in 6.1 or more units for the regular sessions and prorated for the Summer session. Graduate students enrolled in an approved graduate professional business master’s program will be charged an additional Professional Program Fee of $254 per unit for classes to fulfill the degree requirements. Note CoB Professional Fee does not apply to students in the M.A. program in Economics.

Graduate Students in the Masters of Public Administration (M.P.A.) will be charged an additional MPA Program Fee at a rate of $430 for students enrolled in 6.0 units or less or $850 for students enrolled in 6.1 or more units for the regular sessions.

Graduate students in the Doctoral Program in Education Leadership (Ed.D.) will be charged $5,559 for the Tuition Fee along with campus fees.
Graduate – Regular Session—Fall and Spring

Tuition and Fees  
6.0 units or less  6.1 units or more  
(per Semester, Credit or Audit)

<table>
<thead>
<tr>
<th>Tuition Fee</th>
<th>$2,082.00</th>
<th>$3,588.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Fees:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Body Center Fee</td>
<td>$82.00</td>
<td>$82.00</td>
</tr>
<tr>
<td>Recreation and Wellness Center Fee</td>
<td>$160.00</td>
<td>$160.00</td>
</tr>
<tr>
<td>Student Body Association Fee</td>
<td>$54.00</td>
<td>$54.00</td>
</tr>
<tr>
<td>Student Health Service Fee</td>
<td>$157.00</td>
<td>$157.00</td>
</tr>
<tr>
<td>Instructionally Related Activities Fee</td>
<td>$118.00</td>
<td>$118.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$3.00</td>
<td>$3.00</td>
</tr>
<tr>
<td>Campus Service Card Fee</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
<tr>
<td>Student Involvement and Representation Fee</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

Total per semester  $2,840.00  $4,346.00

1 Student has the option to opt out of paying this fee if the student chooses to by published Census date.

Graduate – Summer Session

Tuition and Fees  
6.0 units or less  6.1 units or more  
(Credit or Audit)

<table>
<thead>
<tr>
<th>Tuition Fee</th>
<th>$1,953.00</th>
<th>$3,369.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Fees:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Health Services Fee</td>
<td>$73.00</td>
<td>$73.00</td>
</tr>
<tr>
<td>Recreation and Wellness Center Fee</td>
<td>$42.00</td>
<td>$42.00</td>
</tr>
<tr>
<td>Student Body Center Fee</td>
<td>$38.00</td>
<td>$38.00</td>
</tr>
<tr>
<td>Student Body Association Fee</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Instructionally Related Activities Fee</td>
<td>$9.00</td>
<td>$9.00</td>
</tr>
<tr>
<td>Campus Service Card Fee</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

Total per semester  $2,142.00  $3,558.00

Tuition fees are subject to change without notice. The tuition fee is applicable to all CSU semester-system campuses except CSU Stanislaus. All students must pay regular tuition and fees. For the latest information on fees, please visit the Bursar’s Office web page (bulletin.sfsu.edu/financial-aid/fees-expenses/www.sfsu.edu/~bursar).

Credential – Regular Session—Fall and Spring

Tuition and Fees  
6.0 units or less  6.1 units or more  
(per Semester, Credit or Audit)

<table>
<thead>
<tr>
<th>Tuition Fee</th>
<th>$1,932.00</th>
<th>$3,330.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Fees:</td>
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<tr>
<td>Student Body Center Fee</td>
<td>$82.00</td>
<td>$82.00</td>
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<td>Recreation and Wellness Center Fee</td>
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<tr>
<td>Student Health Service Fee</td>
<td>$157.00</td>
<td>$157.00</td>
</tr>
<tr>
<td>Instructionally Related Activities Fee</td>
<td>$118.00</td>
<td>$118.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$3.00</td>
<td>$3.00</td>
</tr>
<tr>
<td>Campus Service Card Fee</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
<tr>
<td>Student Involvement Fee</td>
<td>$2.00</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

Total per semester  $2,690.00  $4,088.00

Refund of Mandatory Tuition and Fees, Including Nonresident Tuition Fee

Regular Session Tuition Fees

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support, special session, and extended education programs or courses...
at the California State University are governed by a separate policy established by the University (see Extended Learning (p. ) below).

To receive a full refund of mandatory fees, less an administrative charge established by the campus, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available on the web at sfedu.edu/~admisrec/reg/reg.html (http://www.sfsu.edu/%7Eadmisrec/ reg/reg.html).

For state-supported semesters, quarters, and non-standard terms or courses of four (4) weeks or more, a student who withdraws during the term in accordance with the University’s established procedures or drops all courses prior to the campus designated drop period will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

A student who, within the campus designated drop period and in accordance with the campus procedures, drops units resulting in a lower tuition and/or mandatory fee obligation shall be entitled to a refund of applicable tuition and mandatory fees less an administrative charge established by the campus.

For state-supported non-standard terms or courses of less than four (4) weeks, no refunds of mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes, in accordance with the university’s established procedures and deadlines, prior to the first day of instruction for state-supported non-standard terms or courses or prior to the first meeting for courses of less than four (4) weeks.

Students will also receive a refund of mandatory fees, including nonresident tuition, under the following circumstances:

- The fees were assessed or collected in error;
- The University canceled the course for which the fees were assessed or collected;
- The University makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the University for a refund demonstrating exceptional circumstances and the chief financial officer of the University or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the University.

Information concerning any aspect of the refund of fees may be obtained from the Bursar Office or on the web at sfedu.edu/~bursar/ (http:// www.sfsu.edu/%7Ebursar).

Extended Learning

Refund deadlines and fees are based on the type of extension class you are dropping and term/semester in which it runs. Current refund information for extension classes may be obtained from the College of Extended Learning’s website at cel.sfsu.edu (http://www.cel.sfsu.edu).

To obtain current Drop and Refund information from our homepage, search on the word refunds. Students are encouraged to be aware of drop deadlines and refund policies before enrolling and paying for any extension courses.

**Fees and Debts Owed to the Institution**

**Fees and Debts Owed to the Institution**

Should a student or former student fail to pay a fee or a debt owed to the institution, including tuition and student charges, the institution may “withhold permission to register; to use facilities for which a fee is authorized to be charged; to receive services, materials, food, or merchandise; or any combination of the above from any person owing a debt” until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the University are obligated for the payment of charges and fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student charges and fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact the campus business office. The business office, or another office on campus to which the business office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

Students will be responsible for any legal costs incurred in collecting any unpaid tuition and fees and other miscellaneous university fees. Any amount owed may be reported to the Franchise Tax Board for offset against tax refunds, from any state lottery winnings and/or unclaimed property.

For more information or questions, please contact the SF State Bursar’s Office at (415) 338–1281 or bursar@sfsu.edu.

**Fee Waivers and Exemptions**

**Fee Waivers**

The California Education Code provides for the waiver of mandatory systemwide tuition fees as follows:

- **Section 66025.3**—Dependent eligible to receive assistance under Article 2 of Chapter 4 of Division 4 of the Military and Veterans Code; child of veteran of the United States military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, and meets specified income provisions; dependent, or surviving spouse (who has not remarried) of a member of the California National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting
from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state; and undergraduate student who is a recipient of or child of a recipient of a Medal of Honor, under 27 years old, meets the income restriction and California residency requirement.

- **Section 68120**—Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships); and

- **Section 68121**—Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001. Students who may qualify for these benefits should contact the Admissions/Registrar’s Office for further information and/or an eligibility determination.

### The California Education Code provides for the following nonresident tuition exemptions:

- **Section 68075.7**—Nonresident students are exempt from paying nonresident tuition or any other fee that is exclusively applicable to nonresident students if they (1) reside in California, (2) meet the definition of “covered individual” as defined in subsection (c) of Section 3679 of Title 38 of the United States Code, as that provision read on July 1, 2015; and (3) are eligible for education benefits under either the federal Montgomery GI Bill-Active Duty program or the Post-9/11 GI Bill program.

- **Section 68122**—Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus.

- **Section 68130.5**—Students who are not residents of California are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus. In addition, students without lawful immigration status will be required to file an affidavit stating that they have filed an application to legalize their immigration status, or will file an application as soon as they are eligible to do so. This exemption from paying nonresident tuition does not apply to students who are nonimmigrant non-immigrant aliens within the meaning of 8 U.S.C. United States Code 1101(a)(15), except as provided by Section 68122 above.

Students who may qualify for these benefits should contact the Admissions/Registrar’s Office for further information and/or an eligibility determination.

### Determination of Residency for Tuition Purposes

University requirements for establishing residency for tuition purposes are independent of those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay University fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements outlined in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000–68085, 68120–68133, and 89705–89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900–41916. Residency material can be viewed at calstate.edu/sas/residency (http://www.calstate.edu/sas/residency).

Each campus’ Admissions Office is responsible for determining the residency status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least 366 days prior to the residency determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residency for tuition purposes. A minor normally derives residency from the parent(s) they reside with or most recently resided with.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver’s license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire that includes questions concerning their financial independence. Financial independence is required, in addition to physical presence and intent, to be eligible for reclassification. Financial independence is established if in the calendar year the reclassification application is made and in any of the three calendar years preceding the reclassification application the student:

- Has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent;
- Has not and will not receive more than seven hundred and fifty dollars ($750) per year in financial assistance from his/her parent; and
- Has not lived and will not live longer than six (6) weeks in the home of his/her parent.

A nonresident student who has been appointed as a graduate student teaching assistant, a graduate student research assistant, or a graduate student teaching associate on any CSU campus and is employed on
a 0.49 or more time basis is exempt from the financial independence requirement.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residency requirements are contained in California Education Code sections 68070–68085 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906–41906.6, 41910 and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three or more years of high school (grades 9–12) in California or attained credits earned in California from a California high school equivalent to three or more years of full-time high school coursework and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of those schools, and graduated from a California high school or attained the equivalent of graduation. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor’s Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Residency determination dates are set each term. They are:

### Residency Determination Dates

#### Quarter Term Campuses

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>September 20</td>
</tr>
<tr>
<td>Winter</td>
<td>January 5</td>
</tr>
<tr>
<td>Spring</td>
<td>April 1</td>
</tr>
<tr>
<td>Summer</td>
<td>July 1</td>
</tr>
</tbody>
</table>

#### Semester Term Campuses

<table>
<thead>
<tr>
<th>Semester</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>September 20</td>
</tr>
<tr>
<td>Spring</td>
<td>January 25</td>
</tr>
<tr>
<td>Summer</td>
<td>June 1</td>
</tr>
</tbody>
</table>

CalState TEACH operates on a trimester system. The residency determination dates for CalState TEACH are as follows:

### Residency Determination Dates for CalState TEACH

<table>
<thead>
<tr>
<th>Semester</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>September 20</td>
</tr>
<tr>
<td>Spring</td>
<td>January 5</td>
</tr>
<tr>
<td>Summer</td>
<td>June 1</td>
</tr>
</tbody>
</table>

Students classified as nonresidents may appeal a final campus decision within 120 days* of notification by the campus. A campus residency classification appeal must be in writing and submitted to:

The California State University*  
Office of General Counsel  
401 Golden Shore, 4th Floor

Long Beach, CA 90802–4210

The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review.

Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Admissions Office.

Changes may have been made in the rate of non-resident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.

*A proposal to change the contact information and notification period at the CSU Office of General Counsel is pending and will be available after March 2017.

### Average Annual Cost of Education and Sources of Funds per Full-Time Equivalent Student

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2016/17 budget amounts were $3,169,425,000 from state General Fund (GF) appropriations and before adding $36.8 million CalPERS retirement adjustment, $1,685,885,000 from tuition fee revenue and after tuition fee discounts (forgone revenue), and $258,555,000 from other fee revenues for a total of $5,383,865,000. The 2016/17 resident FTES target is 361,644 and the non-resident FTES based on past-year actual is 22,552 for a total of 384,196 FTES. The GF appropriation is applicable to resident students only whereas fee revenues are collected from resident and non-resident students. FTES is determined by dividing the total academic student load (e.g. 15 units per semester) (the figure used here to define a full-time student’s academic load).

The 2016/17 average support cost per FTES based on GF appropriation and net tuition fee revenue only is $13,152 and when including all sources as indicated below is $14,528, which includes all fee revenue (e.g. tuition fees, application fees, and other campus mandatory fees) in the CSU Operating Fund. Of this amount, the average net tuition and other fee revenue per FTES is $5,764.

### Average Cost 2016–2017

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
<th>Average Cost per FTES</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>State Appropriation (GF)</td>
<td>$3,169,425,000</td>
<td>$8,764</td>
<td>60.3%</td>
</tr>
<tr>
<td>Net Tuition Fee Revenue</td>
<td>$1,685,885,000</td>
<td>$4,388</td>
<td>30.2%</td>
</tr>
</tbody>
</table>
Other Fees Revenue $28,555,000 $1,376 9.5%

TOTAL SUPPORT COST $5,383,865,000 $14,528 100%

1 Represents state GF appropriation in the Budget Act of 2016/17; GF is divisible by resident students only (361,644 FTES)
2 Represents CSU Operating Fund, Tuition Fee and other fees revenue amounts (net of tuition fee discounts) submitted in campus August 2016/17 final budgets. Revenues are divisible by resident and non-resident students (384,196 FTES).

The average CSU 2016–17 academic year, resident, undergraduate student basic tuition fee and other mandatory fees required to apply to, enroll in, or attend the university is $6,881 ($5,472 tuition fee plus $1,409 average campus-based fees). However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or non-resident.

Student Financial Aid

How It Works
It costs money to be a student. Aside from the tuition and fees that a student must pay to the university, a student must buy books and supplies, pay for transportation to and from school, and cover personal expenses such as meals and housing. Many students and their families are unable to come up with the money needed to cover all of these expenses. To help these students and their families supplement their own resources, financial aid is available.

Financial need is the determining factor and is the crucial criterion for most types of aid. (There are some loan programs for students and parents of students for which need is not a criterion. See the following section on Program Highlights for the various options available. Some scholarships do not include need as a criterion.)

So what is need? Need is the difference between what it costs to go to college and what the student and family can afford to contribute towards those costs.

The basic financial aid formula:

What It Costs to Attend
- What the Student and Family Can Pay
= Financial Need

Students are generally eligible to receive assistance through financial aid in the amount up to their financial need.

Types of Financial Aid

Grants
Grants are awards of money that do not have to be paid back. Grants are usually awarded to students with financial need.

Work-Study
The Work-Study program enables students to earn money from part-time jobs on campus and off campus at approved non-profit organizations.

Loans
Loans are funds that have to be paid back, usually after a student has graduated or left school. Students are asked to complete entrance and exit counseling requirements if they choose to borrow money through the student loan programs.

Scholarships
Scholarships have varying criteria which may or may not include financial need and can often include academic achievement, community service or major.

The Office of Student Financial Aid may award a student a combination of grants, loans, and work in order to meet the student’s need. At SF State, financial aid funds are provided by the federal government and the State of California. Scholarships can be awarded through the University or outside organizations.

Applying for Financial Aid

In order to determine what the student and family can pay towards the student’s educational expenses, the student must apply for financial aid. The federal and state government have established formulas to compute the family’s contribution based on information regarding the family’s income, assets, and number of family members in college. For a student who is considered to be dependent, the student and the parents complete the application. For students considered to be independent, the student and spouse (if married) complete the application.

The first step in applying for financial aid is to determine which application you should complete. Citizens, permanent residents, eligible non-citizens and T Visa holders should complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Federal Student Aid Program to apply for federal and state aid. Undocumented students who meet the AB 540 criteria or U Visa Holders should fill out the California Dream Application and submit it to the California Student Aid Commission. These applications should be completed beginning October 1st through the priority date of March 2nd prior to each upcoming academic year. The FAFSA is available over the Internet at www.fafsa.ed.gov (http://www.fafsa.ed.gov) and the CA Dream Application at www.caldreamact.org (http://www.caldreamact.org) or from high schools and college financial aid offices. In order for SF State to receive an electronic copy of the FAFSA or the DREAM, the student must include “San Francisco State University” and the code number “001154” on the college release section of the FAFSA or DREAM application.

About four weeks after the student submits the FAFSA or the DREAM, the student will receive a document called the Student Aid Report, and SF State will receive the electronic copy of the FAFSA or CA Dream Application. SF State will notify the student to submit verification documents if necessary. Verification documents may include the IRS tax transcripts and documentation of household size.

The FAFSA is the basic application for all types of federal and state aid. The CA Dream application is the basic application for all types of state aid. Cal Grants require students to submit their GPA verification prior to March 2nd to be considered. Other fellowships and scholarships require an additional application and have different deadlines. See the Program Highlights section below for details.

General Eligibility Requirements

To receive federal student aid, a student must be a citizen, national, or permanent resident of the U.S.; be enrolled in an academic program leading to a degree or certificate; not owe a repayment on any previous federal and/or state grant; must be in good standing on previous student
loans; and have a social security number. To receive state aid, a student must be a resident of California or meet the AB 540 criteria.

**AB 540 Students**

To meet the AB 540 eligibility criteria, students must have: completed three years of High School or primary school in California, graduate from a California high school or the equivalent, not hold a valid visa, and submit a nonresident tuition exemption form to the university prior to the first day of the semester. Students who meet this criteria and file a California dream application by the priority deadline will be considered for all forms of state aid. For more information, visit www.sfsu.edu/~finaid/ab540 (http://www.sfsu.edu/~finaid/ab540).

**Satisfactory Academic Progress**

To maintain eligibility for financial aid at SF State, students must not have attempted more than 150% of the units for their degree. Students must also complete a minimum percentage of units attempted, while maintaining good academic standing with the University. Go to www.sfsu.edu/~finaid/newsapu.html (http://www.sfsu.edu/~finaid/newsapu.html) for more information.

**Estimating Expenses**

Each year the Office of Student Financial Aid establishes standard budgets to reflect the expenses for students attending SF State for the nine-month academic year. The budgets differ for students living with their parents and for students living in campus housing or in off-campus housing. The standard budgets used for 2017 - 2018 are detailed below (undergraduates only). Non-resident students pay per academic unit non-resident tuition plus the State University tuition and fees.

**Student Expenses for Nine Months — 2017 - 2018**

**For Undergraduate Students Enrolled in Seven or More Units**

<table>
<thead>
<tr>
<th>Expenses</th>
<th>At home with Parents</th>
<th>On - or - Off Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Tuition Fees</td>
<td>$6,484</td>
<td>$6,468</td>
</tr>
<tr>
<td>Meals and Housing</td>
<td>14502</td>
<td>13,882</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>1,948</td>
<td>1,900</td>
</tr>
<tr>
<td>Personal Expenses</td>
<td>1,460</td>
<td>1,416</td>
</tr>
<tr>
<td>Transportation</td>
<td>1,565</td>
<td>1,550</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$16694</strong></td>
<td><strong>$25949</strong></td>
</tr>
</tbody>
</table>

**Program Highlights**

The Federal Pell Grant Program is a federal aid program for undergraduate students and students in teaching credential programs with exceptional need. Grants range from $318 to $2,960 per semester. Enrollment requirement: full time = 12 units; three-quarter time = 9-11 units; half time = 6-8 units. Award is prorated depending upon enrollment.

The Federal Supplemental Educational Opportunity Grant (FSEOG) is a federal program which provides aid to undergraduate students with exceptional financial need. Students must be eligible for a Federal Pell Grant. Annual awards at SF State range from $100 to $500.

The State University Grant is a grant for students who are California residents or meet the AB 540 criteria, who pay state resident tuition, and who have exceptional financial need. This grant is awarded to undergraduates, teaching credential, and graduates to cover the amount of CSU system wide resident tuition.

The Educational Opportunity Program Grant (EOP) is a grant provided by the State of California for undergraduate students admitted to the university through the Educational Opportunity Program. EOP students must have financial need and must be enrolled full time to receive the grant. Awards range from $100 to $800 for the academic year, depending on the availability of funds and the need of the students.

The California Student Aid Commission awards grants to students who are California residents or meet the AB 540 criteria. For new applicants, the deadline to apply for the different programs is March 2nd prior to the upcoming academic year (for example, for the 2017 - 2018 academic year, the deadline is March 2, 2017). In addition to the FAFSA or DREAM, the student’s Grade Point Average (GPA) must be submitted to the Commission by the student’s current school of attendance by the March 2nd deadline. More information about the grants discussed below can be provided by high school counselors, financial aid offices, and the California Student Aid Commission at www.csac.ca.gov (http://www.csac.ca.gov) or 888-224-7268.

- Cal Grant A is awarded by the State of California for entering and continuing undergraduate students who are California residents or meet AB540 criteria and demonstrate academic achievement and financial need. Awards cover the amount of CSU system wide resident tuition per academic year.
- Cal Grant B is awarded to entering students from disadvantaged, low income families. Awards include a stipend of up to $1,670 and, after the first year, also cover the amount of CSU system wide resident tuition for the academic year.

University Administered Scholarships are awarded to students based on academic achievement and financial need. A separate application is required for scholarships directly administered through the Office of Student Financial Aid. Some academic departments on campus also have university scholarships. Students should check with the college or department office about other scholarship opportunities.

Outside Scholarships. The Office of Student Financial Aid has information on some outside scholarships. Students are encouraged to contact organizations such as Marin Educational Foundation, parent-teacher groups, community service organizations, employers, etc. for scholarship information. Reference desks in university and public libraries also provide scholarship resource materials.

The Federal Work-Study Program provides employment opportunities on campus to both graduate and undergraduate students with financial need. Students may work a maximum of twenty hours per week. The hourly salary range begins at minimum wage and is higher for jobs that require experience or specific skills. A Work-Study award is not a cash award like a loan or a grant. To use a Work-Study award, a student must find a Work-Study job with a certified Work-Study employer; then the student will receive a monthly paycheck. It is recommended that students seek employment as early as possible because jobs are limited and a Work-Study award is not a guarantee of employment.

The Federal Perkins Loan is a federal program providing long-term, low interest loans to students who are enrolled full time. Awards at SF State depend upon the availability of funds and generally range from $300 to $2,000 per academic year. Interest of 5% begins nine months from the date the borrower is no longer enrolled at least half time. Repayment, at a minimum rate of $90 quarterly, begins three months after interest.
starts to accrue. Information regarding deferments, cancellations, and repayment provisions is provided on the loan promissory note. A borrower may have all or part of his or her loan (including interest) canceled for engaging in teaching, public service, service in the Peace Corps or Americorps*VISTA, or service in the military. An entrance interview is required for all first-time borrowers at SF State.

The William D. Ford Federal Direct Student Loan Program (FDSL) has two components—the subsidized loan and the unsubsidized loan. The Subsidized Loan is available to undergraduate students with financial need. The interest is paid by the federal government while the student is in school at least half time and during the grace or in-school deferment periods. The Unsubsidized Loan is available to undergraduate and graduate students who have limited or no financial need. The interest on an unsubsidized loan must be paid by the student while enrolled in school, and during any grace or in-school deferment periods. A student may choose to have the interest deferred, which adds the deferred interest to the principle. This is called capitalization. Having the interest capitalized will mean larger monthly payments when the student begins repayment. All first time borrowers are required to complete entrance counseling and sign a Master Promissory Note (MPN).

The FDSL maximums vary depending on the student's class level and dependency status.

### Annual Limits for FDSL Program

<table>
<thead>
<tr>
<th>Dependent Students</th>
<th>Maximum Annual Combined Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FDSL Subsidized</td>
</tr>
<tr>
<td>Freshman</td>
<td>$5,500</td>
</tr>
<tr>
<td>Sophomore</td>
<td>$6,500</td>
</tr>
<tr>
<td>Junior, Senior, Credential</td>
<td>$7,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Independent Students</th>
<th>Maximum Annual Combined Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FDSL Subsidized and Unsubsidized</td>
</tr>
<tr>
<td>Freshman</td>
<td>$9,500</td>
</tr>
<tr>
<td>Sophomore</td>
<td>$10,500</td>
</tr>
<tr>
<td>Junior, Senior</td>
<td>$12,500</td>
</tr>
<tr>
<td>Credential</td>
<td>$12,500</td>
</tr>
</tbody>
</table>
| Classified Graduate (Unsubsidized Only) | $20,500 |}

Loan repayment begins at the end of a six-month grace period after the student leaves school or ceases to be enrolled on at least a half-time basis. If the student is enrolled less than half time, they are considered to be in the grace period. Various loan repayment options are available. Exit counseling is required at the time of graduation or separation from the University.

Parent Loans (PLUS) provides loans through banks and other participating lending institutions for parents of dependent students. Financial need is not a factor in determining a parent’s eligibility for this loan program. Interest begins to accrue when the loan is disbursed. Repayment begins 60 days after the loan is disbursed. The loan limit for Parent Loans is equal to the student’s budget less financial aid awarded.

Graduate PLUS Loan provides loans through banks and other participating lending institutions for classified master’s degree students. Financial need is not a factor in determining a student’s eligibility for this loan program. The interest begins to accrue when the loan is disbursed. Repayment begins 60 days after the loan is disbursed. The loan limit for the Graduate PLUS is equal to the student’s budget less financial aid awarded.

### Short-Term Loans

Short-Term Loans are available for a maximum of $500 on a 30-day repayment basis. The purpose of the short-term loan is to help students with unanticipated expenses which are school-related. Students may pick up an application from the Bursar’s Office.

### Individual Help

Students should call, write, or visit the Office of Student Financial Aid (415) 338-7000, e-mail: finaid@sfsu.edu (finaid@sfsu.edu)—if they have questions or for individual help. Counselors are available to assist students in person during office hours at the One Stop Center on the first floor of the Student Services building.

Office hours are Monday - Friday, 9:00 a.m. to 5:00 p.m.

Financial Aid Deadlines and Availability by Student Classification (p. 140)

### Nationally Competitive and CSU Fellowships and Awards

San Francisco State’s Fellowships Office is available to assist undergraduate and graduate students in applying for nationally competitive scholarships, fellowships, and grants as well as CSU system-wide scholarships and awards. These awards include generous funding for graduate studies, as well as research experience and prestigious internships in the U.S. and abroad. Competitive applicants are passionate, engaged students with strong records of academic achievement, leadership, and public service activities. Preparing for these wonderful opportunities requires work well in advance of submission deadlines to find fellowships that match your interests and experience, to plan your academic and extracurricular life to develop your qualifications, and to perfect your application essays. To explore the possibility of pursuing a nationally competitive fellowship, search the Fellowships Office website for opportunities in your field or area of professional interest http://fellowships.sfsu.edu/, then make an appointment with Dr. Joy Viveros, fellows1@sfsu.edu.

### Financial Aid Deadlines

The student must file the Free Application for Federal Student Aid (FAFSA) by March 2nd prior to the upcoming academic year (e.g., for the 2017–2018 academic year, the priority deadline is March 2, 2017) to be considered for all types of financial aid. If the student misses the March 2nd priority deadline, he/she may still file the FAFSA but will be considered for remaining available funds only, usually limited to Pell Grant and student loans.

The FAFSA form is the primary application for all types of financial aid including grants, work-study, and loans. However, some types of aid require additional applications; see the chart below for information.

<table>
<thead>
<tr>
<th>Aid Programs</th>
<th>Undergraduate</th>
<th>Classified Graduate</th>
<th>Classified Credential</th>
<th>2nd Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pell Grant</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial Aid Deadlines</td>
<td>San Francisco State University Bulletin 2017-2018</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Supplemental Education Opportunity Grant (SEOG)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cal Grant A &amp; B ¹</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middle Income Scholarship ²</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State University Grant (SUG)</td>
<td>X X X X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Opportunity Program Grant (EOP)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Administered Scholarships ³</td>
<td>X X X X X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate Equity Fellowship ³</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal College Work Study Program</td>
<td>X X X X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Perkins Loan</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Direct Student Loan (Subsidized and Unsubsidized)</td>
<td>X X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Direct Student Loan — Graduate (Unsubsidized Only)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Parent Loan (PLUS) ³</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Graduate PLUS Loan ³</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Unclassified graduate students and most Extended Learning students are ineligible for financial aid.

¹ Students enrolled at least half-time in a post-baccalaureate teaching credential program not leading to a graduate degree may be considered for a Pell Grant only for those courses required to complete the teaching credential program.

² GPA verification required.

³ Additional application/form required.
Policies and Procedures

Observance of Bulletin Requirements

- A student, except a classified graduate student, who remains in continuous attendance in regular sessions and continuing in the same curriculum at any campus, in any of the California community colleges or in any combination of California community colleges and campus of the California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements for San Francisco State University in effect (1) at the time they began their study, (2) at the time they entered the CSU campus from which they graduate, or (3) at the time they graduate from the CSU. Substitutions for discontinued courses may be authorized or required by the appropriate campus authority. Students who change their major after being admitted to San Francisco State University, or who declare a major after being admitted with an undeclared major, must meet the major requirements in effect at the time they change or declare their major.

- A student, except a classified graduate student, not in a period of continuous attendance at the time of filing for a degree and/or credential must meet the Bulletin requirements in effect at the time of filing. Continuous attendance for purposes of Bulletin requirements is defined as matriculated attendance in at least one semester or two quarters each calendar year.

- All students may be required to meet new requirements imposed by the Trustees of the California State University or by the California State Legislature.

- A classified graduate student must meet all requirements as stated on the Advancement to Candidacy and the program must reflect the Bulletin requirements in effect at the time the student was officially admitted to classified status in the major department or those requirements in effect at the time the program is filed and approved by the Dean of Graduate Studies.

Registration Policies

- All students who register at San Francisco State University in resident study for either the fall or spring semester must first be admitted to the University by the Admissions Office.

- Registration is complete only when all fees, deposits, and charges are paid. Students are required to make all payments by the regularly announced deadlines. Students must pay for added units on their own initiative at the time they add additional units; the University is not responsible for billing students.

- Students are granted credit only for those courses in which they are formally registered. Students are responsible for completing all courses in which they are enrolled.

- Students receive an e-mail notice about registration procedures and can check their eligibility and priority registration day and time on the website, Registration Time at the SF State Gateway hgateway.sfsu.edu (https://gateway.sfsu.edu).

Use of Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The University uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. The Internal Revenue Service requires the University to file information returns that include the student’s social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes. The SSN is also required by the Franchise Tax Board for collection of returned checks.

SF State University Identification Number

For other records and services, the University uses an assigned identification number (SF State ID/UIN). Students are required to write their SF State ID/UIN on university petitions and forms as well as personal checks submitted for any payment to the University. Payment by personal check is consent by the student for the University to write the student’s SF State ID on the check if it is not referenced. See the SF State ID/UIN Policy at wgsfu.edu/~admisrec/reg/ferpa.html (http://www.sfsu.edu/~admisrec/reg/ferpa.html).

Students who have forgotten or do not know their SF State ID can look on the SF State Gateway at hgateway.sfsu.edu (https://gateway.sfsu.edu).

Classification of Students for Registration

Newly Admitted

Students who have never enrolled at San Francisco State in a fall or spring semester and who have been admitted to the University for a specific semester, or students who have previously attended San Francisco State and are returning to begin a new degree objective (e.g., a new graduate student who received a B.A. from SF State) are considered newly admitted.

Continuing

Students who were previously enrolled at SF State in a regular semester and who have not been absent from the University for more than one complete semester, excluding summer semester, are considered continuing students. Note: Students enrolled at another college or university during their absence through an authorized special program, or have been granted a leave of absence, are considered continuing students.

Per immigration regulations, foreign students are required to be continuously enrolled every semester. Undergraduates must carry a minimum of 12 units and graduate students must carry a minimum of eight units.

To be considered in attendance for any semester, the student must be reported as enrolled in at least one class on the 20th day of instruction in the fall and spring semesters and the 10th day of instruction in each session of Regular session summer semester.

Readmitted

Students who have been absent from San Francisco State for two full semesters (excluding Summer and Winter Sessions), or who have attended another college or university during their absence, must have applied and been readmitted to the University by the undergraduate or graduate Admissions Office.
Class Level of Students
The class level of students is determined according to units completed (earned units) as follows:

<table>
<thead>
<tr>
<th>Class Level of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Lower Division</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Upper Division</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Graduate: Holding a baccalaureate or master’s degree from an accredited university or college.

Unit Requirements

Units to Graduate
An undergraduate student who has completed all of the requirements for graduation and has a total of 120 semester units is eligible to graduate with a baccalaureate degree. Students who exceed the minimum number of units required to graduate may be monitored and asked to file an approved degree completion plan each year until they graduate.

Residence Units Requirement
For award of the baccalaureate degree, all students are required to complete a minimum of 30 units in residence at SF State. Of the 30-unit residence requirement, 24 units must be upper-division courses and 12 units, upper-division or lower-division, must be in the major. Nine of these residence units must be earned in the Upper Division portion of the General Education program. Units earned for courses awarding extension credit or credit by examination or evaluation do not carry residence credit.

Upper-Division Units Requirement
For award of the baccalaureate degree, all students are required to complete a minimum of 40 upper division units (courses numbered 300–699 at SF State). Twenty-four of these upper division units must be completed at SF State, and nine of these upper division units must be completed in the Upper Division portion of the General Education program.

Maximum Credit for Community College Work
The University accepts a maximum of 70 semester units for work completed at a community college.

Maximum Credit for Extension and Correspondence Work
The University accepts a maximum of 24 semester units of extension credit and correspondence courses towards award of a baccalaureate degree. Courses taken through Open University that earn extension units are included in this limitation, as are courses taken through military programs, such as MCI or Dantes. The University does not offer correspondence courses, but accepts correspondence credits transferred from another accredited institution as part of the 24 unit maximum for extension and correspondence work. Credit earned through SF State Winter Sessions and Special Sessions is not included in the 24 unit limitation.

Maximum Credit by Examination or Evaluation
Matriculated students may obtain credit by examination for specific courses as determined by each department and approved by the course instructor and department chair. Interested students should inquire with each department about its credit by examination policy.

The examination is comprehensive and searching. A grade and appropriate grade points are recorded on the student’s permanent record. Students must be regularly enrolled in at least one course other than the course they are challenging during the semester they earn credit by examination. It is not advised that students enrol in the course they desire to challenge. If a student is enrolled in a course that s/he has successfully challenged, the student is responsible for dropping or withdrawing from the course, or may be administratively dropped by the instructor.

Units earned via credit by examination are counted as part of the total units registered for a given semester and appropriate fees must be paid. Credit by examination may not be counted towards the residence requirement of the University. A student who registers as an auditor may not earn credit by examination in that course.

Credit by Evaluation for Experiential Learning
Matriculated students may also earn academic credit through the Credit by Evaluation for Experiential Learning (CEEL) Program (p. 167). This program is an alternative method for students to earn academic credit for college-level learning experiences for which no academic credit has been awarded. Typical experiences include research projects, significant work or life experiences, volunteer activities, and structured internships. Only undergraduate credit may be earned with a maximum limit of 30 units, six of which can be earned for residence credit. Units are usually applied towards general education or elective areas, but in certain instances, units may be used to fulfill major or minor requirements. An important requirement for earning CEEL credit is to create a learning portfolio that documents and describes the college-level learning that was achieved through these experiences. The portfolio is thoroughly evaluated by a faculty member from an academic area for which the credit is being sought. For further information, contact the Advising Center at (415) 338–2948.

Maximum Units of Credit (CR) Grades
No more than 30% of the units earned at SF State and applied towards completion of the baccalaureate degree may be taken for credit (CR) grades. Students should consult with their major departments for further restrictions on the use of CR grades.

Enrollment Limitations
This university and the State of California are very supportive of individuals completing course work for degrees, credentials, and certificates offered by the University, as well as for professional growth, and for personal enrichment within reasonable limits. With the limitation of physical and personnel resources available, the University reserves the right to limit, or terminate, the enrollment of any individual it feels has been fairly served by educational opportunities at this institution or elsewhere, and where the enrollment needs of other individuals must be given higher priority in the context of the resources available.

Limitation of Total Units
The Associate Vice President (AVP) for Enrollment Management is authorized to review the records of students who have earned sufficient units of credit to graduate, but have not applied for graduation. When the student has met all requirements for graduation, the AVP, after consultation with the student, may take the necessary action to have the student graduated. In those cases where the requirements for graduation can be completed in one additional semester, the associate vice
president, after conference with the student, the appropriate department chair, and either the dean of Undergraduate Education and Academic Planning or the Dean of Graduate Studies, may notify the student that he or she has only one additional semester in which to complete the graduation requirements. If graduation requirements are not completed in the time designated, future registration in the University may not be permitted or may be subject to conditions mutually agreed upon by the student and the AVP.

**Maximum Units in One Semester**

Fifteen units is considered an average semester course load for full-time undergraduate students. During first priority registration, students may register for a maximum of 16 units of enrolled and five units of wait-listed courses. Beginning with the second priority registration, students may register for a maximum of 19 units of enrolled and five units of wait-listed courses. Undergraduate students on academic probation may enroll in a maximum of thirteen units.

During Summer Semester, undergraduate students may enroll in a maximum of seven units in a five-week summer session, nine units in an eight-week session, twelve units in a ten-week summer session, and a maximum of fourteen units in any combination of summer semester sessions. Registration will not permit students to enroll in more than the above unit maximums without prior approval of the relevant dean.

Undergraduate students who want to enroll in more than the maximum units must have a cumulative SF State grade point average of 3.0 or better and obtain a Petition to Exceed the Maximum Unit Policy for Undergraduate Students from the Registrar’s Office website (forms) (http://www.sfsu.edu/%7Eadmisrec/reg/formstoc.html). This petition must be signed by the student’s major advisor, department chair, and college dean. The petition must be turned into the Registrar’s Office at the One Stop Student Service Center before the add deadline for the semester. Undeclared and special majors must receive the approval of the dean of Undergraduate Studies. All other majors must receive the approval of their advisor and the dean of the college in which they are a major.

Students who wish to enroll in 25 or more units in one semester must receive the written approval of their advisor, their college dean, and the Dean of Undergraduate Studies. Courses completed in auditor status, or at another university or through SF State’s College of Extended Learning must be included on the Petition to Exceed the Maximum Unit Policy for Undergraduate Education and Academic Planning.

Nursing majors who participate in the Advanced Placement Option for Registered Nurses are required to file a Petition to Exceed the Maximum Unit Policy for Undergraduate Students if their total unit load for any given semester exceeds 19 units, including all units earned through the advanced placement credit by examination option for that semester.

**Repeat of Courses**

*Unless otherwise stated in the course descriptions in the current SF State Bulletin, courses may not be repeated for additional units of credit.*

An undergraduate student who has received a grade of C or better, or a grade of CR, may not repeat a course unless the course is described in the Bulletin as repeatable for credit. An undergraduate student who has received a grade in a course that is lower than C, including AU, IC, RD, RP, W, and WU, may repeat that course only once more. Graduate students who receive a grade lower than B, including AU, IC, RD, RP, W, and WU, may repeat that course only once more.

Undergraduate students may repeat a maximum of 16 units of coursework taken at San Francisco State University for the purpose of excluding the original grade from grade point determination (i.e. grade forgiveness). When a course is repeated, up to the 16 unit limit, the lower of the two grades is “forgiven” from the GPA calculation. Grade forgiveness shall not be applicable to courses for which the original grade was the result of a finding of academic dishonesty. All units attempted, and all grade points after the repeat limit has been reached, will be included in the student’s cumulative totals. If a student chooses to repeat a course in which the grade was passing (D– or higher) after reaching the repeat limit, all units attempted and all grade points earned will be used in the calculation of the student’s grade point average (GPA), but the units earned will be applied to the calculation of total units earned only once.

An undergraduate student cannot repeat any courses once they have repeated 28 units of SF State units, unless the course is described in the Bulletin as repeatable for credit. Note: courses repeated as a result of a student withdrawing from a full semester of coursework do not count towards the 28 unit limit on course repeats.

A student cannot repeat a course that has a grade of I (Incomplete) unless the I grade has been converted to a grade. (Variable topic courses are excluded only when topics vary.)

Once a bachelor’s degree has been granted, repeating courses for any reason (as a visitor, post-baccalaureate, or Open University student) will not affect the GPA or content of the degree already granted.

Exceptions to this policy require the consent of the department chair in which the course is offered and the college dean of that college.

**Time Limit to Complete Requirements for Undergraduate Degree**

There is normally no statutory period for units required for an undergraduate degree at SF State. However, if any course required for the major, minor, or certificate was taken more than seven years prior to graduation, then departments and programs may require students to retake that course or demonstrate currency in that subject. Consult with the department for more information.

**Registration for Classes**

Communication with students is only via email and all admitted students must sign up for a SF State email account. It is the responsibility of students to regularly check their email for important notices and key dates and deadlines.

Registration for all students is on the SF State Gateway at gateway.sfsu.edu (https://gateway.sfsu.edu). Notices are sent via email to all eligible students to view their assigned priority registration appointment day and time and to check for any holds. Please refer to the Registrar’s Office website (http://www.sfsu.edu/~admisrec/reg/reg.html) for specific dates and details. Registration at San Francisco State is divided into distinct time periods as outlined below.

**Priority Registration (Continuing Students only)**

Early Priority Registration is available in Fall, Spring, and Summer terms. Continuing eligible students are assigned a priority day and time. All holds must be cleared before access is granted. Students may add their name to a Waiting List during this period if all seats in a class are taken. If space becomes available, students on a wait list may be automatically added to a class. After Early Priority Registration
ends, changes are not allowed until the next registration period begins. Students are informed of fee payment deadlines by SF State email and at sfus.edu/~bursar/students_services.html. Students who do not pay their fees by the published deadline and are not covered by a waiver or financial aid are automatically dropped from all classes.

**Orientation (New Students only)**

Newly admitted first-time freshmen and undergraduate transfer students register for their classes on the day they attend Orientation. All holds must be cleared before access is granted. Students are informed of fee payment deadlines by SF State email and at sfus.edu/~bursar/students_services.html. Students who do not pay their fees by the published deadline and are not covered by a waiver or financial aid are automatically dropped from all classes.

**Second Priority Registration and Open Registration (New and Continuing Students)**

During Second Priority Registration students are assigned a priority day and time based on their student level. Students may also add their names to a waitlist if a class is full and space is available on the waitlist. If space becomes available, students on a wait list may be automatically added to a class. After Second Priority Registration ends, changes are not allowed until the next registration period begins. Students are informed of fee payment deadlines by SF State email and at sfus.edu/~bursar/students_services.html. Students who do not pay their fees by the published deadline and are not covered by a waiver or financial aid are automatically dropped from all classes. Open Registration with no priority assignments is available a few days before classes begin.

**Adding Courses after Instruction Begins**

If the student has paid sufficient fees and has instructor approval, he/she may add courses via the SF State Gateway at gateway.sfsu.edu (https://gateway.sfsu.edu) with instructor assigned permission numbers during the first three weeks of the semester.

**Dropping Courses after Instruction Begins**

Students are responsible for dropping classes by the published drop deadline. After that point, students may withdraw from a course or courses only for serious and compelling reasons. Petitions for withdrawal are available on the Registrar’s website http://www.sfsu.edu/~admisrec/forms/regforms/withdrawal.pdf and must be signed by the instructor and department chair. Some colleges also require college dean approval. College dean approval is always required if withdrawal is in the last three weeks of the semester.

**Withdrawal Policy**

Beginning Fall 2009, an undergraduate student or second baccalaureate student may withdraw from a course a maximum of two times and from no more than 18 semester units of individual course work. This does not include total semester withdrawals of all courses or classes taken in CEL (College of Extended Learning).

Satisfactory Academic Progress rules require a 67% completion rate (units completed out of units attempted) to receive financial aid. W and WM grades are considered attempted units in this calculation.

**Auditing Courses**

A student who wishes to audit a course instead of enrolling for credit must apply to and be admitted by the University. Enrollment as an auditor is subject to permission of the instructor provided that enrollment in a course as an auditor shall be permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit students and regular class attendance is expected. Once enrolled as an auditor, a student may not change to credit status unless such a change is requested no later than the last day to add classes. A student who is enrolled for credit may not change to audit after the second week of instruction.

Any student admitted to a class as an auditor will not be permitted to obtain credit by examination for that class. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor.

**Academic Load**

Students are expected to include two hours of preparation for each hour of regular class work. During spring and fall, the normal academic load for undergraduates is 12 to 15 units per semester and in summer eight units. For graduates, the normal load during spring and fall is from nine to 12 units per semester and seven units during the summer. For international students in F1 visa status, immigration regulations require a minimum academic load of 12 units for undergraduates and eight units for graduates for spring and fall semesters.

**Enrollment Verification**

A student may verify his/her enrollment via the SF State Gateway at gateway.sfsu.edu (https://gateway.sfsu.edu). A notice to check enrollment is sent via email during the first week of the semester. Official enrollment verifications are certified by the Registrar’s Office after the last day to add and drop classes.

**Verification for enrollment is calculated as follows:**

(including students receiving financial aid)

<table>
<thead>
<tr>
<th>Level</th>
<th>Time</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates</td>
<td>Full Time</td>
<td>12–19 units</td>
</tr>
<tr>
<td></td>
<td>Three-quarter Time</td>
<td>9–11 units</td>
</tr>
<tr>
<td></td>
<td>Half Time</td>
<td>6–8 units</td>
</tr>
<tr>
<td></td>
<td>Less than Half Time</td>
<td>1–5 units</td>
</tr>
<tr>
<td>Graduates</td>
<td>Full Time</td>
<td>12 units or 8 units of upper division or graduate level courses (300 level or above)</td>
</tr>
<tr>
<td></td>
<td>Three-quarter Time</td>
<td>9 units or 6 units of upper division or graduate level courses (300 level or above)</td>
</tr>
<tr>
<td></td>
<td>Half Time</td>
<td>6 units or 4 units of upper division or graduate level courses (300 level or above)</td>
</tr>
<tr>
<td></td>
<td>Less than Half Time</td>
<td>1–5 units or 1–3 units of upper division or graduate level courses (300 level or above)</td>
</tr>
</tbody>
</table>

**Financial Aid**

All students requesting and accepting financial aid through San Francisco State must register for and complete twelve or more semester
units as an undergraduate and eight or more upper division or graduate-level semester units as a graduate. Some financial aid programs allow a reduced unit requirement. Additional information may be obtained from Financial Aid.

Students who wish to enroll in extension work with this University and/or to enroll in courses at other institutions at the same time as they are registered for courses at this university, should plan the combined program with their major advisor. Under no circumstances is the total unit load for all course registrations in all institutions being attended to exceed the maximum unit load restrictions for this institution without written approval in advance from either the dean of Undergraduate Studies or the dean of Graduate Studies. Failure to obtain such approval in advance will subject the student to possible loss of units taken here and/or a restriction of units for transfer from the other institutions.

Academic Load for Veterans and Dependents of Veterans is calculated as follows:

### Fall and Spring Semesters – Veterans Academic Load

<table>
<thead>
<tr>
<th>Level</th>
<th>Time</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates</td>
<td>Full Time</td>
<td>12 or more</td>
</tr>
<tr>
<td></td>
<td>Three-quarter Time</td>
<td>9–11 units</td>
</tr>
<tr>
<td></td>
<td>Half Time</td>
<td>6–8 units</td>
</tr>
<tr>
<td></td>
<td>Less than Half Time</td>
<td>1–5 units</td>
</tr>
<tr>
<td></td>
<td>Full Time</td>
<td>9 units or 8 units of all upper division or graduate level courses (300 level or above)</td>
</tr>
<tr>
<td></td>
<td>Three-quarter Time</td>
<td>7 units or 6 units of all upper division or graduate level courses (300 level or above)</td>
</tr>
<tr>
<td>Graduates</td>
<td>Half Time</td>
<td>5 units or 4 units of all upper division or graduate level courses (300 level or above)</td>
</tr>
<tr>
<td></td>
<td>Less than Half Time</td>
<td>1–4 units or 1–3 units of all upper division or graduate level courses (300 level or above)</td>
</tr>
</tbody>
</table>

**Note:** For purposes of Veterans and Dependents of Veterans Educational Benefits for graduate students, each upper division and graduate level course (courses numbered 300 and above) is worth 1.5 units. Each lower division course (courses numbered 100–299) is worth 1 unit.

### Summer Semester – Veterans Academic Load

<table>
<thead>
<tr>
<th>Level</th>
<th>Time</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1 AND R3 SESSIONS</td>
<td>Five weeks session</td>
<td>4 units</td>
</tr>
<tr>
<td>(Undergraduates and Graduates)</td>
<td>Full Time</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Three-quarter Time</td>
<td>3 units</td>
</tr>
<tr>
<td></td>
<td>Half Time</td>
<td>2 units</td>
</tr>
<tr>
<td></td>
<td>Less than Half Time</td>
<td>1 unit</td>
</tr>
<tr>
<td>R2 SESSION</td>
<td>Eight week session</td>
<td>6 units</td>
</tr>
<tr>
<td>(Undergraduates and Graduates)</td>
<td>Full Time</td>
<td></td>
</tr>
</tbody>
</table>

#### Three-quarter Time
- 4–5 units
- 3 units

#### Half Time
- Less than Half Time
- 1–2 units

**R4 SESSION** Ten week session
(Undergraduates and Graduates)

<table>
<thead>
<tr>
<th>Level</th>
<th>Time</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Three-quarter Time</td>
<td>5–6 units</td>
</tr>
<tr>
<td></td>
<td>Half Time</td>
<td>3–4 units</td>
</tr>
<tr>
<td></td>
<td>Less than Half Time</td>
<td>1–2 units</td>
</tr>
</tbody>
</table>

**Note:** For purposes of Veterans and Dependents of Veterans Educational Benefits for graduate students, each upper division and graduate level course (courses numbered 300 and above) is worth 1.5 units. Each lower division course (courses numbered 100–299) is worth 1 unit.

### Veterans and Dependents of Veterans

In planning programs, students should observe Veterans Administration regulations concerning minimum academic loads. For certification under the Veterans Readjustment Benefits Act of 1966 (Public Law 89–358), undergraduates must register for and complete twelve or more semester units of credit to receive maximum benefits. Graduate students must register for and complete eight or more upper division or graduate-level semester units of credit each term to receive maximum benefits. If graduate students register for any lower division courses, they must register for and complete nine or more semester units to receive maximum benefits. Additional information may be obtained from the Veterans Services Center.

### Class Attendance

Students are expected to attend classes regularly because classroom work is one of the necessary and important means of learning and of attaining the educational objectives of the institution.

Students should not miss classes except for valid reasons, such as illness, accidents, or participation in officially approved university activities. When a student is absent from classes, it is his/her responsibility to inform his/her instructors of the reason for the absence and to arrange to make up missed assignments and class work insofar as this is possible.

Instructors make reasonable accommodation for students to observe religious holidays when such observances require students to be absent from class activities. The policy is available at senate.sfsu.edu/content/f00-212-policy-observance-religious-holidays (http://senate.sfsu.edu/content/f00-212-policy-observance-religious-holidays). It is the responsibility of the student to inform the instructor, in writing, about such holidays during the first two weeks of the class each semester. If such holidays occur during the first two weeks of the semester, the student must notify the instructor, in writing, at least three days before the date that he/she will be absent.

The instructor may consider regular attendance when assigning grades. In that case, the requirement for regular attendance must be stated in writing as part of the course requirements and distributed to students at the beginning of the semester.

### Planned Educational Leave of Absence

Continuing students who have been officially admitted to, and who are actively pursuing, a degree and/or credential program may qualify to absent themselves from enrollment in the institution for periods
up to two academic years and still maintain the option of continuing student status. As a consequence of a leave of absence, it is expected that a student will improve his/her ability to complete the degree program. A petition for the leave must clearly demonstrate that during the absence from the University the student will be doing something significantly relevant to his/her program. Requests for health, financial, or other personal reasons, or matriculation at another institution are not recognized for the purpose of granting a leave of absence. In the latter instances, students would need to reapply for admission when they are ready to resume their studies in the University. Undergraduate students should contact the Registrar’s Office at the One Stop Student Services Center for more information.

Continuing students can be absent one fall or spring semester during a specific academic year and maintain their eligibility. Students do not have to submit an Application for Planned Educational Leave unless absent for two consecutive semesters, excluding summer.

To be eligible for an educational leave of absence, a graduate student must:
1. be a U.S. citizen or resident alien (foreign students ineligible);
2. have been officially admitted to a master’s and/or credential program offered by the University;
3. have an Advancement to Candidacy (ATC) on file in the Division of Graduate Studies office or Credential Approved Program (CAP) on file in the Credentials Office in the College of Education;
4. be in good academic standing; and
5. have completed acceptable course work (at least nine units) toward the identified objective prior to the effective date of the leave.

Such a planned academic leave does not change the beginning or ending dates of the seven-year completion of degree requirements for master’s degree candidates. For further information contact the Division of Graduate Studies office.

Withdrawal Policy
Cancellation of Registration and Withdrawals
Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow the University’s official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Students who withdraw during the first three weeks of instruction are not considered enrolled for the current semester. Students who do not enroll for two consecutive semesters (excluding summer) must apply for readmission to the University. Information on canceling registration and withdrawal procedures is available from the Registrar’s Office, in person or on the Registrar’s Office website (http://www.sfsu.edu/~admisrec/reg/reg.html).

Students who receive financial aid funds must consult with the Office of Student Financial Aid prior to withdrawing from the University regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Withdrawal from Course or Courses
During the first three weeks of instruction, dropping a course(s) is permitted without restriction or academic penalty. No symbol is recorded on the student’s permanent record. The procedure for dropping a course during this period is described in detail by the Registrar’s Office. At SF State, dropping a course is the student’s responsibility. However, faculty are authorized and encouraged to instructor-drop students who do not attend the first class meeting, are not attending before the end of the drop period, or do not meet the course criteria.

After the first three weeks but before the 13th week of instruction, withdrawal from a course is permissible, only for serious and compelling reasons, by consulting the instructor and obtaining the approval of the instructor, department chair/program director, and college dean. The student should submit the appropriate petition and supporting documents (including unofficial transcripts) to the instructor. The instructor will review, approve, or deny the petition. If the withdrawal is approved, the student will submit the signed petition to the department or college office for review. If the student has previously withdrawn from the same course two times, the petition will be denied. Undergraduate students may withdraw from no more than 18 semester units of individual courses taken in matriculated status at SF State. This limit does not apply to semester withdrawals, coursework completed via self-support enrollment, withdrawals approved prior to Fall 2009, or withdrawals permitted after the twelfth week of instruction (see below). The petition will be denied if approval would result in an undergraduate student exceeding the withdrawal limit. Should the instructor be unavailable despite the student’s best effort to meet with him/her, the withdrawal request may be reviewed and determined by the department chair/program director in which the course is given.

Withdrawals are not permitted after the twelfth week of instruction except in cases, such as an accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student’s control and the assignment of an Incomplete grade is not practical. Under these circumstances, a student may elect to withdraw from a course or from the university. The procedure to withdraw from a course under these circumstances is as described above, except that such requests must also be approved by the Board of Appeals and Review (BoAR). Requests for permission to withdraw from the university under these circumstances are submitted by the student directly to the Registrar for review by BoAR. Course withdrawals resulting from these requests will not count against the 18 unit withdrawal limit.

The student may receive a grade of ‘W’ which will appear on his/her permanent record. However, a ‘W’ grade shall not be counted toward the student’s GPA. The student may appeal a dean’s denial of a withdrawal request to the Board of Appeals and Review (BoAR).

The symbol ‘W’ indicates that the student was permitted to withdraw from the course after the second week of instruction with the approval of the instructor and appropriate campus officials. It carries no notation of quality of student performance and is not used in calculating grade point average or progress points.

Withdrawal from the University
A student may withdraw completely from the University for serious and compelling reasons or in verified cases of accident or serious illness. All requests for withdrawal or retroactive withdrawal from the University must be submitted and justified in writing to the registrar.
Transcripts

Official transcripts of courses taken at the University are issued only with the written permission of the student concerned. Partial transcripts are not issued. Information on fees and how to order transcripts can be found in the Transcripts section of the Registrar’s website at sfsu.edu/~admisrec/reg/transc.html (http://www.sfsu.edu/~admisrec/reg/transc.html).

Transcripts show all San Francisco State University work completed and transfer units as of the date of application for the transcript. Students who want to include grades for the current or recently ended term should check that these grades are recorded on their unofficial transcripts before ordering their official transcripts. This is also true for students who have recently graduated and want to make sure their degree shows on their official transcripts.

Transcripts from other institutions, which have been presented for admission or evaluation, become a part of the student’s permanent academic file and are not returned or copied for distribution. Students desiring transcripts covering work attempted elsewhere should request them from the appropriate institutions.

Grading Policy and Systems

Grading Policy

Policies concerning the evaluation of student work (grading) are under continuous review and subject to change. Department chairs are responsible for informing department members of basic faculty grading policy and procedures and for ensuring adherence to these policies and procedures.

It is the responsibility of the instructor to describe to each class the methods of evaluation. Students should feel free to ask for an explanation of the grading practices in any course.

Additional definitions which are applicable to special circumstances for graduate programs can be found in the Graduate Studies section, Registration and Grading Procedures for Culminating Experience Courses (p. 120).

Basic Definitions

The following symbols shall be used in evaluating student performance, which will be interpreted to reflect the quality of the student’s accomplishment relative to the standards set for each course:

A: Performance of the student has been at the highest level, showing sustained excellence in meeting course requirements.

B: Performance of the student has been good, though not at the highest level.

C: Performance of the student has been adequate, satisfactorily meeting the course requirements.

D: Performance of the student has been less than adequate.

F: Performance of the student has been such that course requirements have not been met.

CR: (Credit) Performance of the student in an undergraduate level course has been equivalent to grades A through C; performance of the student in a graduate level course has been equivalent to grades A through B.

NC: (No Credit) Performance of the student has been less than that of CR level.

I: (Incomplete Authorized) Indicates that a portion of required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons, and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements which must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. An I must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an I being converted to an IC, unless the faculty member assigns a specific letter grade at the time the Incomplete Authorized is assigned, which would replace the I in the student’s record at the end of the calendar year deadline.

IC: (Incomplete Charged) Indicates that a student who received an authorized incomplete (I) has not completed the required course work within the allowed time limit. The IC replaces the I and is counted as a failing grade for grade point average and progress point computation.

W: (Withdrawal) Indicates that the student was permitted to withdraw from the course after the 3rd week of instruction with the approval of the instructor and appropriate campus officials. It carries no connotation of quality of student performance and is not used in calculating grade point average or progress points. Undergraduate students may withdraw from no more than 18 semester units of courses taken in matriculated status at SF State. Course withdrawals that result from a student petition to “withdraw from the university” do not count against the maximum number of withdrawal units provided in this section.

WU: (Withdrawal Unauthorized) Indicates that an enrolled student did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average and progress point computation, this symbol is equivalent to an F.

AU: (Audit) Indicates that the student was enrolled on a non-credit basis. Enrollment as an auditor is subject to the permission of the instructor and shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit students and regular class attendance is expected. Once enrolled as an auditor, a student may not change to credit status unless such a change is requested prior to the last day to add classes. A student who is enrolled for credit may not change to audit after the second week of instruction.

RP: (Report in Progress) Used in connection with courses that extend beyond one academic term. It indicates that work is in progress but that assignment of a final grade must await completion of additional work. Work is to be completed within one year except for graduate culminating experience courses. RP grades are also used in Early
Start courses to indicate that a student participated but did not make sufficient progress for improved math placement.

RD: (Report Delayed) Indicates no grade was turned in by the professor. It is used where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol may be assigned by the registrar only and, if assigned, shall be replaced by a substantive grading symbol as soon as possible.

Grading Systems

The basic grading system to be used at San Francisco State University is the A–F system (see definitions above).

An alternative Credit/No Credit (CR/NC) system may be used under the following conditions:

- A list of courses in which CR/NC grading is mandatory is maintained in each departmental office;
- In courses where the CR/NC option is permitted, but not mandatory, students must take appropriate action to change to CR/NC grading by the eighth week of class;
- No more than 30% of the units earned at this university, and applied toward an undergraduate degree, may be taken for CR grades;
- All students in a given class, whether being evaluated on the A–F or CR/NC basis, are to be treated in the same manner on assignments, methods of evaluation, and standards of performance. The only difference is the symbol entered on the student's official grade record;
- Students who select CR/NC grading should be informed that CR grades may be interpreted as a C and NC grades may be changed to an F when considered by other institutions;
- For students working toward a master's degree, no more than 30% of the units used on the Advancement to Candidacy, including transfer work, may be taken for CR grades.

Use of Incomplete Authorized (I) Grade

The symbol I (Incomplete Authorized) indicates that a portion of required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons, and that there is still a possibility of earning credit. It is the responsibility of the student period due to unforeseen, but fully justified, reasons, and that there is coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons, and that there is a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated.

An incomplete must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an F being converted to an IC symbol.

A student may not re-enroll in a course for which he or she has received an incomplete until a grade has been assigned.

If a student has extenuating circumstances and an extension of the one year is necessary, the student should contact the instructor involved and obtain a designated extension of time to make up the incomplete. The form to be used for this extension is the Petition for Waiver of College Regulations. The petition must be approved by the instructor and the department chair and forwarded to the Registrar’s Office.

A grade of Incomplete (I) will not be changed after a degree or credential has been awarded even though it is made up within the time period.

Use of Report in Progress (RP) Grade

The RP symbol is used in connection with theses, projects, and similar courses in which assigned work frequently extends beyond a single academic term. When used in this connection, it indicates that work is in progress and has been evaluated and found to be satisfactory to date, but that assignment of a precise grade must await completion of additional work. Cumulative enrollment in units attempted may not exceed the total number applicable to the student's educational objective. The RP symbol shall be replaced with the appropriate final grade within one year of its assignment except for graduate culminating experience courses.

Use of Withdrawal Unauthorized (WU) Grade

The symbol WU shall be used where a student, who is enrolled on the census date, does not officially withdraw from a course but fails to complete it. Its most common use is in those instances where a student has not completed sufficient course assignments or participated in sufficient course activity to make it possible, in the opinion of the instructor, to report satisfactory or unsatisfactory completion of the class by use of the letter grade (A–F). The instructor shall report the last known date of attendance by the student. The WU symbol shall be identified as a failing grade in the transcript legend, and shall be counted as units attempted but not passed in computing the grade point average. In courses that are graded CR/NC or in cases where the student has elected CR/NC evaluation, use of the WU symbol is inappropriate and NC shall be used instead.

Use of WM Grade

Beginning Fall 2009, an undergraduate student may withdraw from no more than 18 units of course work. This does not include total semester withdrawals of all courses or classes taken in CEL (College of Extended Learning). Courses with a grade of WM are notated on the unofficial transcript to distinguish from individual withdrawals (W) that are subject to the 18 unit maximum allowed.

Grade Point Average

Grade point averages are determined by dividing the total number of grade points earned by the total number of units attempted in courses in which A–F grades are assigned.

Grade Points

The following grade points are assigned per unit of course work:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Grading Systems
No other grading symbol, including W, I, AU, RP, RD, CR, NC, carries grade point credit.

Definition of Semester Unit
One semester unit corresponds to one hour per week for fifteen (15) weeks in a fall or spring semester. (At least two hours of study is expected in preparation for each hour of class.)
or
Three hours of laboratory work per week for fifteen (15) weeks,
or
Two hours of class work in activity-type courses in art, music, and speech per week for fifteen (15) weeks. (At least one hour of outside preparation is expected for each hour of laboratory or activity class work.)

Summer session and extension units are evaluated on the basis of hours to units equal to those above but adapted to the special schedules of these programs.

Credit Hour
As of July 1, 2011, federal law (600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. For all CSU degree programs and courses bearing academic credit, the “credit hour” is defined as “the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.” A credit hour is assumed to be a 50 minute period. In courses, in which “seat time” does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

A credit hour is assumed to be a 50 minute period. In courses, in which “seat time” does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

Definition of Continuing Education Unit (CEU)
CEUs are nationally recognized units of measurement for participation in professional development programs for which academic credit is not awarded. CEUs may neither be applied to nor substituted for graduation requirements. One CEU is earned for ten hours of instruction. San Francisco State University policy requires an evaluation of student learning for all courses which award CEUs.

Grade Changes
• Letter grades are not convertible to other letter grades and NC grades are not convertible to CR grades except in cases of instructor or administrative error. All grade changes are by petitions with a recommendation of a grade change by the instructor and the approval of the department chair and/or college dean. A student wishing to request a retroactive grade change must initiate the request during the semester in attendance immediately following the semester when the original grade was assigned or the course in question was offered.
• Except in cases of instructor or administrative error, CR/NC grades are not convertible to letter grades or vice versa. All grade change requests involving the CR/NC option are by petition, with a recommendation by the instructor and the approval of the department chair and/or college dean. Requests for reasons other than clerical error are subject to review by the Board of Appeals and Review.
• Retroactive withdrawals from individual courses require instructor, department, and dean approval. Retroactive semester withdrawals are subject to review by the Board of Appeals and Review.
• Grade changes are not permitted after the award of a degree or credential, unless the change is for a course not used for the degree (in the case of a graduate student continuing after the award of a degree or readmitted second baccalaureate student) or in the case of a formal school grade appeal process when the request has been initiated by the student in the semester immediately following the award of the grade.

Scholastic Distinction
Undergraduate Students
Satisfactory Scholarship
An undergraduate student working for a baccalaureate degree is expected to maintain a grade point average (GPA) of 2.0 (C) or better in all work at San Francisco State University. To be eligible for a baccalaureate degree, a student must have a GPA of at least 2.0 (C) in:
1. all courses completed at San Francisco State University.
2. all courses completed at the college or university level, and
3. all courses in their major.

**Semester Dean’s List**

Each semester the university recognizes undergraduate students who have attained high scholastic achievement. The following criteria are used:

- The student registered for and completed a minimum of twelve (12) semester units for the semester. Only those courses where A–F grades were assigned are counted.
- The student attained a grade point average of 3.25 or higher for the semester.
- Only resident courses are used in computing the grade point average.
- Only grades for the semester under consideration are used in computing the grade point average.

**Graduation with Honors**

Honors are granted with the Bachelor of Arts, Bachelor of Music, and Bachelor of Science. For students who entered the university beginning Fall 1996, honors are based on the cumulative grade point average at the time of graduation (across all units attempted, whether in residence or transferred from other institutions). The level of honors granted is determined by the grade point average earned in all university and college work attempted according to the following scale:

- A student whose GPA is 3.50 – 3.69 shall graduate cum laude.
- A student whose GPA is 3.70 – 3.84 shall graduate magna cum laude.
- A student whose GPA is 3.85 or greater shall graduate summa cum laude.

**Note:** in the calculation of honors, GPA is not rounded up and is based on the actual student GPA.

A preliminary honors list is compiled based on all work completed excluding the last semester. Those meeting honors requirements on this basis are designated on the commencement program as “candidates for honors.” The final honors list is compiled at the time of final clearance for graduation and is based on all course work completed.

**Phi Beta Kappa**

Phi Beta Kappa, the oldest honor society in the United States, maintains a chapter at San Francisco State University. Known as Omicron of California, the chapter grants membership, by invitation only, to students in their senior year. Requirements for membership as established by the Phi Beta Kappa Society in Washington, D.C. and by the campus chapter are:

- A student must have completed at least 100 semester units towards graduation.
- At least 45 of those 100 semester units must have been earned at San Francisco State University.
- A student’s grade point average must place him/her among the top 10% of their graduating class. Most initiates have earned a grade point average above 3.7.
- A student must be majoring in one of the liberal subjects. That means the major normally would be in some subject taught in the College of Ethnic Studies, College of Health and Social Sciences, College of Liberal & Creative Arts, or College of Science & Engineering, although not all majors in those colleges are considered liberal subjects.

- A student must have earned at least 90 semester units of credit in liberal subjects as listed above.
- Applied, professional, or vocational courses cannot be considered as qualifying for Phi Beta Kappa membership. Work in business, broadcasting, studio arts, education, engineering, and journalism courses are considered “professional.”
- The student’s coursework must include a broad spectrum of studies in the sciences, humanities, and behavioral and social sciences. Evaluators are looking for depth as well as breadth and will, consequently, expect to find that a student has taken some courses beyond a mere introduction to a given subject.
- A student must have completed at least three units of university-level mathematics. Remedial courses will not be counted. Math courses accepted for GE are not necessarily acceptable for Phi Beta Kappa. A partial list of acceptable mathematics courses includes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 165</td>
<td>Concepts of the Number System</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 565</td>
<td>Concepts of Geometry, Measurement, and Probability</td>
<td>3</td>
</tr>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 371</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

  or any course for which these are a prerequisite

- A student must have studied a foreign language and be able to demonstrate an ability to read and write in that language. Evaluators will look for evidence that a student has progressed at least through three semesters of a foreign language or equivalent at the college level. Some students may have entered San Francisco State University with six units of Advanced Placement credit in a language and could, therefore, go directly into a third-semester language course. Students who can demonstrate that their native language was not English may count English competence as fulfilling the foreign language requirement.

An interested student who meets these minimum qualifications should contact his/her adviser for possible nomination for membership in the society.

The selection process starts at the beginning of the fall semester of each year. Transcripts are reviewed and a final vote on all candidates is made by the entire Chapter no later than spring. Once this vote is taken, it is impossible to elect any more new members until the following spring. New members who accept the invitation to membership are initiated at a formal ceremony, and attendance at the ceremony is required. Persons graduated at the end of fall semester may be considered for election during the spring semester immediately following graduation. Persons graduated earlier than one semester preceding the spring election process will generally not be considered for membership.

**Academic Standards**

For graduate academic standards see Graduate Academic Policies and Procedures (p. 120).
Undergraduate Students

Good Standing
To remain in good standing a student working toward a baccalaureate degree must maintain a cumulative GPA of 2.0 (C) or better.

Academic probation and disqualification actions are taken only at the close of each regular semester. Both quality of performance and progress toward the chosen objective are considered in determining a student’s eligibility to remain in the University.

Probation
Undergraduate and second baccalaureate students will be placed on probation when the cumulative GPA in all college work attempted or in all work at San Francisco State University falls below 2.0 (C).

Disqualification
Undergraduate and second baccalaureate students on probation are subject to disqualification when:

- As freshmen (fewer than 30 units completed), they fall below a grade point average of 1.50 in all college units attempted or in all SF State units attempted.
- As sophomores (30 through 59 units completed), they fall below a grade point average of 1.70 in all college units attempted or in all SF State units attempted.
- As a junior (60 through 89 units completed), they fall below a grade point average of 1.85 in all college units attempted or in all SF State units attempted.
- As senior or second BA students (90 or more units completed), they fall below a grade point average of 1.95 in all college units attempted or in all SF State units attempted.

Academic standards for graduate students can be found in the Graduate Studies (p. 120) section of this Bulletin.

Probation and Disqualification

Minimum Grade-Point Average
For award of the baccalaureate degree, all undergraduate students must maintain at least a 2.0 grade-point average (GPA) in all college course work, in all SF State course work, and in all major course work. The grade-point average is calculated by dividing the total grade points earned by the total units attempted. CR and NC grades are not included in the calculation of the grade point average. Students who do not meet the minimum 2.0 GPA requirement for SF State course work will be subject to mandatory probationary advising.

Mandatory Advising Program (MAP)
In the beginning of each semester, all undergraduate and second baccalaureate students whose grade point average at SF State has fallen below 2.0 will receive an email from the Registrar’s Office notifying them that they are on academic probation.

Students must schedule advising appointments with their major advisors before the deadline stated in the registrar’s email in order to avoid an administrative hold on their registration for the next semester. The steps outlined in the letter must also be followed.

Maximum Number of Units for Undergraduate Students on Academic Probation
The Policy Limiting the Number of Units Enrolled in by Undergraduate Students on Academic Probation (Academic Senate Policy FO2-223), effective Fall 2003, applies to all undergraduate students. Undergraduate students on academic probation may enroll in a maximum of 13 units per semester for spring and fall semesters during which they are on academic probation. Individual exceptions to this limit may be granted with approval from the student’s department chair and college dean.

Exceptions for students who have not declared a major must be approved by the Dean of Undergraduate Education and Academic Planning or designees.

Administrative/Academic Probation
An undergraduate, second baccalaureate, or graduate student may be placed on administrative/academic probation by the University for any of the following reasons:

- Withdrawal from all or a substantial portion of a program of studies in two successive terms or in any three terms. (A student whose withdrawal is directly associated with a chronic or recurring disability or its treatment is not to be subject to administrative/academic probation for such withdrawal.)
- Repeated failure to progress toward the stated degree objective, or other program objective, including that resulting from assignment of 15 units of No Credit, when such failure appears to be due to circumstances within the control of the student.
- Failure to comply, after due notice, with an academic requirement or regulation which is routine for all students or a defined group of students. Examples: failure to complete a required CSU or campus examination, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program.

When such action is taken, the student shall be notified in writing and shall be provided with the conditions for removal from probation and the circumstances that would lead to disqualification, should probation not be removed.

Administrative/Academic Disqualification
An undergraduate, second baccalaureate, or graduate student who has been placed on administrative/academic probation may be disqualified from further attendance if:

- The conditions for removal of administrative/academic probation are not met within the period specified.
- The student becomes subject to academic probation while on administrative/academic probation.
- The student becomes subject to administrative/academic probation for the same or similar reason for which he/she has been placed on administrative/academic probation previously, although not currently in such status.

When such action is taken, the student shall receive written notification including an explanation of the basis for the action.

Students who have been on continuous probation and/or subject to disqualification for three continuous semesters may be administratively
disqualified at the end of their third semester. This excludes summer enrollment.

In addition, an appropriate campus administrator may disqualify a student who at any time during enrollment has demonstrated behavior so contrary to the standards of the profession for which the student is preparing as to render him/her unfit for the profession. In such cases, disqualification will occur immediately upon notice to the student, which shall include an explanation of the basis for the action, and the campus may require the student to discontinue enrollment as of the date of the notification.

**Academic Renewal**

Academic Renewal may be used for the purpose of disregarding some undergraduate course work from graduation requirements. According to Title 5 (Section 40402), “When, in the opinion of the appropriate campus authority, work completed during a previous enrollment at the campus or at another institution of higher education is substandard and not reflective of the student’s present scholastic ability and level of performance, all work completed during one or two semesters, as the appropriate campus authority shall decide, may be disregarded in the computation of grade point averages and other requirements for graduation.” The conditions for approval noted below must be met for academic renewal to be invoked. These conditions are:

- The student has formally requested such action and presented evidence that substantiates that the work in question is substandard and not representative of her/his current scholastic ability and/or performance level, and
- The previous level of performance was due to extenuating circumstances, and
- All degree requirements except the earning of at least a “C” (2.0) grade point average have or will soon have been met.
- University policy regarding academic renewal is not intended to permit the improvement of a student’s grade point average beyond what is required for graduation.
- Final determination, that one or more terms shall be disregarded, shall be based on careful review of evidence by a committee appointed by the president, which shall include the designee of the chief academic officer and consist of at least three members.
- Such final determination shall be made only when:
  - Five years have elapsed since the most recent work to be disregarded was completed, and
  - The student has earned in residence at the campus since the most recent work being considered was completed:
    - 15 semester units with at least a 3.0 GPA or
    - 30 semester units with at least a 2.5 GPA or
    - 45 semester units with at least a 2.0 GPA

When such action is taken, the student’s record shall be annotated so that it is readily evident to users of the record, that NO work taken during the disregarded term(s), even if satisfactory, has been applied towards the meeting of degree requirements. However, all work must remain legible on the record. The student’s academic transcript shall have the notation, “Acad Renewal” by each course approved for Academic Renewal with an explanation in the transcript’s legend.

If another institution has acted to remove coursework from consideration, such action shall be honored in terms of that institution’s policy. But, elimination of any coursework’s consideration shall reduce by one term the two-semester maximum on the application of academic renewal to a student’s record.

Another special provision of Academic Renewal allows the student to repeat a course and to have the previous attempt excluded in the calculation of the grade point average. Requests should be directed to the Student Services Center. The following conditions apply:

- This provision is applicable only if it enables the student to meet the minimum grade point average required for graduation.
- Repeat of a course under this policy is permitted only if a grade of D, F, IC, or WU was received on the previous attempt of that course. Grades for both the previous and repeated attempts are recorded on the transcript.
- A maximum of sixteen units may be repeated according to this provision.
- A student wishing to attempt a course for a third time at SF State and have the previous grades disregarded for graduation purposes, under the terms of this policy, must receive permission of the department chair and college dean before repeating the course.
- Students transferring from other colleges where courses were taken and repeated are held to the policy of the college where the course was repeated.
- Students transferring from other colleges where courses were taken and subsequently repeated at SF State may be eligible for consideration under this policy.
- Unless otherwise stated, courses may not be repeated for additional units of credit.

**Readmission of Disqualified Students**

Disqualified students may, after at least two semesters have elapsed, apply for readmission to the University, provided they have removed all academic deficiencies, or resolved the problems which may have caused the disqualification. The work taken to eliminate an academic deficiency at this institution must be taken through the College of Extended Learning in order to impact the grade point average at this institution. If disqualification resulted from any other reasons than academic performance, approval must be obtained from the unit of the University which recommended the disqualification action. Students disqualified from another institution, including other CSU campuses, may not be admitted to San Francisco State unless it can be demonstrated that the cause of the disqualification has been eliminated (additional course work with good grades, etc.) and the student is otherwise eligible to return to the institution of disqualification. For additional information, see Readmission Procedures (p. 60).

**Grievances and Appeals**

An undergraduate student who has questions or concerns about degree requirements or general university regulations should discuss them first with a major advisor. If students wish to review an issue or to appeal a decision, they should consult with the department or program chair and, if needed, the college dean. Should questions arise beyond this point with respect to where or to whom a specific appeal should be directed, the dean of Undergraduate Education and Academic Planning may be consulted for advice. After all of the informal procedures for grievances and appeals have been exhausted, the dean of Undergraduate Education and Academic Planning or designee may initiate formal grievance procedures.

A graduate student who has problems arising from evaluation, advancement to candidacy, degree requirements, or general regulations
should discuss them first with a graduate major advisor. If a student wishes to review a problem or to appeal a decision, he/she should then consult with the department chair, college graduate coordinator, and the college dean, in that order. Should questions arise beyond this point with respect to where or to whom a specific appeal should be directed, the dean of Graduate Studies may be consulted for advice. After all of the informal procedures for grievances and appeals have been exhausted, the dean of the Graduate Division or designee may initiate formal grievance procedures.

See Supplemental Regulations and Procedures section for Student Grievance Procedures (p. 160). Disabled students should consult the Disability Programs and Resource Center for disability-related grievance procedures.

Graduation and Commencement

Graduation Information and Application Process for the Bachelor’s Degree
A well-planned course of study, as well as a clear understanding of requirements, will help the student avoid graduation problems and delays. While each student is responsible for meeting all degree requirements and graduation deadlines, assistance is available from faculty advisors assigned through the major department, from staff in the Advising Center, and from a graduation evaluator in the Registrar’s Office.

Degree Dates
Three official graduation dates are scheduled each year one in the fall, one in the spring, and one in the summer. To qualify for graduation, the student must complete all requirements for the bachelor’s degree by the official graduation date.

The graduation application and filing fee entitle students to an official graduation date, they may participate in the annual commencement ceremony.

One Degree with Multiple Majors and/or Minors
Double majors leading to the same baccalaureate degree (B.A. or B.S.) do not constitute separate baccalaureate degrees and only one degree and one diploma will be awarded. Only one application fee of $100 is required for one degree, regardless of the number of majors and minors.

Graduating with Multiple Degrees
A student may be awarded more than one baccalaureate degree (B.A., B.S., B.M.) at the same time provided that requirements of both degree programs have been completed. Students who complete two different baccalaureate degrees must apply for both degrees in a single degree period by submitting separate applications simultaneously. Only one $100 fee is required for the two applications submitted simultaneously. Students who complete concurrently the requirements for two or more baccalaureate degrees will be acknowledged on separate diplomas for each degree earned.

Note: Students may not pursue a baccalaureate and master’s degree concurrently.

Students are not eligible to enroll in courses offered through regular university in the term following award of a degree without first applying for admission to the University. Students will be administratively dropped by the Registrar’s Office from courses taken in a post-degree term and must apply for a refund with the Bursar’s Office.

Commencement Ceremony and Graduation Approval

Graduation Ceremony
The formal commencement ceremony occurs once a year, usually at the end of May. Only those students who graduated the previous summer (August graduation date), those who graduated the previous fall (January graduation date), those who have applied for graduation in current spring (May graduation date), or who have applied by the spring application deadline for graduation in current summer (August graduation date) are eligible to participate in the ceremony. Baccalaureate degrees require a minimum of 120 units. Cap and gown rental is available in the Bookstore at an additional cost.

Participation in commencement does not mean that the student has officially graduated and is qualified for the bachelor’s degree. If in the final semester, students do not complete a course or earn a satisfactory grade, they still need to complete all courses and requirements required for the degree. Students will need to reapply for graduation, pay the $100 application for graduation fee and obtain faculty advisor and department chair signatures in the semester of actual completion of the outstanding requirement(s).

Courses in Excess of Bachelor’s Degree Requirements
It is the general policy of this University to consider courses taken prior to the award of the baccalaureate degree as undergraduate courses. However, a student may request on the Application for Award of Baccalaureate Degree that up to twelve semester units of upper-division and/or graduate level work, taken in the final semester before the award of the baccalaureate degree be granted provisional post-baccalaureate status, providing these units are in excess of those required for the baccalaureate degree.

Even if granted provisional post-baccalaureate status, the decision to accept courses for a graduate degree taken while in graduate status, rests with the post-baccalaureate program’s department chair, dean and administrative approval.

It is preferred that such courses taken at this time be upper division courses, leaving graduate course work to be taken after the baccalaureate degree has been officially completed. Seniors may enroll in graduate courses only with special permission of the instructor.

If such a request is filed, the total unit load taken, in all institutions and for all purposes, by the student during that final semester must not exceed the maximum unit load in effect for graduate level students as outlined in the section Maximum Unit Load. Any exceptions must have the approval of the dean of the Division of Graduate Studies in advance of registration for the final term. If the baccalaureate degree is not completed at the end of the term in question, all the work taken is subject to being counted as undergraduate work and the provisional post-baccalaureate status for specified courses voided.

Graduate Student Application for Graduation
Candidates for degrees must file an application for graduation in accordance with the University calendar. The Application for Graduate Degree, which is available online through your Student Center, is only
accessible to students with an approved Advancement to Candidacy (ATC) form and an approved Culminating Experience Proposal on file with the Division of Graduate Studies. The student must pay the graduation fee and complete the application for award of degree the semester of graduation.

Applications will not be approved for a specified term unless all requirements have been met as of the final day of the semester. If a candidate does not complete the requirements as planned in a particular semester, he/she must reapply for graduation to be considered in a subsequent semester and pay the $100 application for graduation fee.

If the student is required to be enrolled the semester of graduation, this requirement must be noted on the ATC. Students should consult with their department to determine whether or not enrollment in an additional course is required once the student has enrolled in the Culminating Experience course. Students who have not registered for the class at the time they apply for graduation will be required to enroll in the following semester and graduation will be delayed or, students can request of the department chair and dean for retroactive registration. Payment of all registration fees will be required.

**Graduating with Multiple Graduate Degrees**

A student may be awarded more than one masters or doctoral degree (MA, MS, MBA, E ED) at the same time provided that requirements of both degree programs have been completed. Students who complete two different graduate degrees may apply for both degrees in a single degree period by submitting separate applications simultaneously. A fee of $100 is required for each application submitted. Students who complete concurrently the requirements for two or more graduate degrees will be acknowledged on separated diplomas for each degree earned.

**Note:** Students may not pursue a baccalaureate and master’s degree concurrently.

Students are not eligible to enroll in courses offered through regular university in the term following award of a degree without first applying for admission to the University. Students will be administratively dropped by the Registrar’s Office from courses taken in a post-degree term and must apply for a refund with the Bursar’s Office.
Appeals Process

Undergraduate Student Requests for Exceptions to Academic Policies (p. 156)
Graduate Student Requests for Exceptions to Academic Policies (p. 157)

Undergraduate Student Requests for Exceptions to Academic Policies

Exceptions to Undergraduate Academic Policies

Several of the more frequently requested exceptions to undergraduate academic policies are outlined below. The exemptions chart summarizes the nature of the appeal and each of the levels in the appeal process. Students should direct questions about any of the appeals listed in the chart to the office listed under the first level in the appeal process. Many appeals will be resolved at the first level. Questions about appeals not listed in the chart should be directed to the Dean of Undergraduate Education and Academic Planning, ADM 447.

Undergraduate Admission and Readmission

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Graduation Evaluator</td>
</tr>
<tr>
<td>Second</td>
<td>Assistant/Associate Director, Admissions</td>
</tr>
<tr>
<td>Third</td>
<td>Director, Admissions</td>
</tr>
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EPT/Literacy

EPT Exemptions

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
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<tbody>
<tr>
<td>First</td>
<td>Director, Development Studies</td>
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EPT Exemptions – Students with Disabilities

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Director, Disability Programs and Resource Center</td>
</tr>
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</table>

Challenge Exams (114/214/JEPET)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>First</td>
<td>English Composition Office</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td>Third</td>
<td>Board of Appeals and Review</td>
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Undergraduate ELM Exemptions

<table>
<thead>
<tr>
<th>Level</th>
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<tbody>
<tr>
<td>First</td>
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ELM Exemptions – Students with Disabilities

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<th>Level</th>
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Undergraduate Evaluation of Transfer Credit

General Education

<table>
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<tr>
<th>Level</th>
<th>Office</th>
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<tbody>
<tr>
<td>First</td>
<td>Supervisor, Evaluations</td>
</tr>
<tr>
<td>Second</td>
<td>Director, Advising Center</td>
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Third

Dean, Undergraduate Education and Academic Planning

Major Course

<table>
<thead>
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<th>Level</th>
<th>Office</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Department Advisor</td>
</tr>
<tr>
<td>Second</td>
<td>Department Chair</td>
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Undergraduate Student Fee

<table>
<thead>
<tr>
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<tr>
<td>First</td>
<td>Registration Appeals Committee Designee</td>
</tr>
<tr>
<td>Second</td>
<td>Registration Appeals Committee</td>
</tr>
<tr>
<td>Third</td>
<td>VP, Business and Finance</td>
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Undergraduate Retroactive Degree Within One Year

<table>
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<tbody>
<tr>
<td>First</td>
<td>Graduation Evaluator</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td>Third</td>
<td>Board of Appeals and Review</td>
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More than One Year

<table>
<thead>
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<th>Level</th>
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<tbody>
<tr>
<td>First</td>
<td>Graduation Evaluator</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
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Undergraduate Residency

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<tr>
<td>First</td>
<td>Admissions Specialist</td>
</tr>
<tr>
<td>Second</td>
<td>Residency Specialist</td>
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<tr>
<td>Third</td>
<td>General Counsel, Chancellor’s Office</td>
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Undergraduate Late Registration

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
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<tbody>
<tr>
<td>First</td>
<td>Registrar</td>
</tr>
<tr>
<td>Second</td>
<td>Registration Appeals Committee</td>
</tr>
<tr>
<td>Third</td>
<td>Director, Enrollment Management</td>
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Undergraduate Graduation Denial

<table>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Graduation Evaluator</td>
</tr>
<tr>
<td>Second</td>
<td>Follow route appropriate to specific cause of denial</td>
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Undergraduate Grade Appeals

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<thead>
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<th>Level</th>
<th>Office</th>
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<tr>
<td>First</td>
<td>Instructor</td>
</tr>
<tr>
<td>Second</td>
<td>Department Chair</td>
</tr>
<tr>
<td>Third</td>
<td>College Dean</td>
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</table>

Undergraduate Academic Load: Excess Units

20 – 24 Units (Students with Majors)

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<thead>
<tr>
<th>Level</th>
<th>Office</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Major Advisor</td>
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Office
<table>
<thead>
<tr>
<th>Second</th>
<th>College Dean</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>20+ Units (Undeclared Students)</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Advisor, Advising Center</td>
</tr>
<tr>
<td>Second</td>
<td>Director, Advising Center</td>
</tr>
<tr>
<td>Third</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td><strong>25+ Units</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Major Advisor</td>
</tr>
<tr>
<td>Second</td>
<td>College Dean</td>
</tr>
<tr>
<td>Third</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
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<table>
<thead>
<tr>
<th>Undergraduate Academic Disqualification</th>
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<td>Students with Majors</td>
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<td>Level</td>
<td>Office</td>
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<tr>
<td>First</td>
<td>Department Chair</td>
</tr>
<tr>
<td>Second</td>
<td>College Dean</td>
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<tr>
<td>Third</td>
<td>Board of Appeals and Review</td>
</tr>
<tr>
<td>Undeclared Students</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Advisor, Advising Center</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td>Third</td>
<td>Board of Appeals and Review</td>
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<tr>
<td>Undeclared EOP Students</td>
<td></td>
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<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Advisor, EOP</td>
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<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td>Third</td>
<td>Board of Appeals and Review</td>
</tr>
<tr>
<td><strong>All University Undergraduate Graduation Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Consult with Advising Center advisor for appropriate referral</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td>Third</td>
<td>Board of Appeals and Review</td>
</tr>
<tr>
<td><strong>General Education Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Advisor, Advising Center</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Undergraduate Education and Academic Planning</td>
</tr>
<tr>
<td><strong>Undergraduate Course Waiting List Objections</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Instructor</td>
</tr>
<tr>
<td>Second</td>
<td>Department Chair</td>
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<tr>
<td>Third</td>
<td>College Dean</td>
</tr>
<tr>
<td><strong>Undergraduate Course Prerequisite</strong></td>
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<td>Level</td>
<td>Office</td>
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<td>Second</td>
<td>Department Chair</td>
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<td>Third</td>
<td>College Dean</td>
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<table>
<thead>
<tr>
<th>Third</th>
<th>College Dean</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate Major Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Acceptance of Course Work</td>
<td></td>
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<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Major Advisor</td>
</tr>
<tr>
<td>Second</td>
<td>Department Chair</td>
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<tr>
<td>Third</td>
<td>College Dean</td>
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<table>
<thead>
<tr>
<th><strong>Graduate Student Requests for Exceptions to Academic Policies</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exceptions to Academic Policies</strong></td>
<td></td>
</tr>
<tr>
<td>Listed below are some of the more common graduate student requests for exceptions to academic policies of the University. The chart indicates with whom each type of request is initiated and any subsequent levels in the process that may be either optional or required. Any questions regarding the procedures for the appeals listed, or about any appeals that may not be listed, should be directed to the Division of Graduate Studies, ADM 254.</td>
<td></td>
</tr>
<tr>
<td><strong>Graduate Late Application for Admission</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Recommendation of Graduate Coordinator or Program Chair</td>
</tr>
<tr>
<td>Second</td>
<td>Director, Graduate Admissions and Student Services</td>
</tr>
<tr>
<td>Third</td>
<td>Dean, Graduate Studies</td>
</tr>
<tr>
<td><strong>Graduate Waiver of 3.0 GPA Admission Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Master’s Degree and Credential Objective Students</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Recommendation of Graduate Advisor or Program Chair</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Graduate Studies</td>
</tr>
<tr>
<td><strong>Graduate Reinstatement</strong></td>
<td></td>
</tr>
<tr>
<td>Unclassified Students</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Director, Graduate Admissions and Student Services</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Graduate Studies</td>
</tr>
<tr>
<td><strong>Classified and Credential Objective Students</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Recommendation of Graduate Advisor or Program Chair</td>
</tr>
<tr>
<td>Second</td>
<td>College Graduate Coordinator or College Dean</td>
</tr>
<tr>
<td>Third</td>
<td>Dean, Graduate Studies</td>
</tr>
<tr>
<td><strong>Graduate Late or Retroactive Add of Culminating Experience Classes (i.e. 893, 894, 895, 898)</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Office</td>
</tr>
<tr>
<td>First</td>
<td>Graduate Advisor or Program Chair</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Graduate Studies</td>
</tr>
<tr>
<td><strong>Graduate Late Application for Award of Degree</strong></td>
<td><strong>Acceptance of Transfer Units</strong></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Coordinator, Graduate Continuing Student Services</td>
<td>Graduate Advisor and Graduate Coordinator</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
</tr>
<tr>
<td>Dean, Graduate Studies</td>
<td>Dean, Graduate Studies</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Graduate Extension of Time to Make-up Incomplete Grade</strong></th>
<th><strong>Waiver of Seven Year Requirement to Complete Degree or Certificate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Recommendation of Instructor or Chair of Program Offering Course</td>
<td>Graduate Advisor or Program Chair</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
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<tr>
<td>Dean, Graduate Studies</td>
<td>Dean, Graduate Studies</td>
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<table>
<thead>
<tr>
<th><strong>Graduate Retroactive Change of Incomplete Already Reverted to F Grade</strong></th>
<th><strong>Election of Bulletin Requirements to be Followed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Instructor</td>
<td>Coordinator, Graduate Continuing Student Services</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
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<tr>
<td>Dean, Graduate Studies</td>
<td>Dean, Graduate Studies</td>
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<table>
<thead>
<tr>
<th><strong>Graduate Term Unit Overloads</strong></th>
<th><strong>Most Other Advancement to Candidacy Requirements</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Graduate Advisor</td>
<td>Coordinator, Graduate Continuing Student Services</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
</tr>
<tr>
<td>Dean, Graduate Studies</td>
<td>Dean, Graduate Studies</td>
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<table>
<thead>
<tr>
<th><strong>Graduate Leave of Absence Request for Classified Students</strong></th>
<th><strong>Graduate Late Registration and Fee Payment</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Graduate Advisor or Program Chair</td>
<td>Registrar</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
</tr>
<tr>
<td>Dean, Graduate Studies</td>
<td>Director, Enrollment Services</td>
</tr>
<tr>
<td></td>
<td>third</td>
</tr>
<tr>
<td></td>
<td>Registration Appeals Committee</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Graduate Appeal of an Assigned Grade</strong></th>
<th><strong>Baccalaureate Degree Equivalency</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Instructor</td>
<td>University Baccalaureate Equivalency Committee</td>
</tr>
<tr>
<td>Second</td>
<td>University Baccalaureate Equivalency Committee</td>
</tr>
<tr>
<td>Department Chair</td>
<td>(Materials filed with Enrollment Services)</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>Retroactive Granting of Post-Baccalaureate Status for Course Work Taken While in Undergraduate Standing</strong></th>
<th><strong>Graduate Student Fees</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Graduate Advisor or Program Chair</td>
<td>Registration Appeals Committee Designee</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
</tr>
<tr>
<td>Dean, Graduate Studies</td>
<td>Registration Appeals Committee</td>
</tr>
<tr>
<td>Third</td>
<td>Third</td>
</tr>
<tr>
<td>Registrar</td>
<td>Vice President, Administration and Finance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Advancement to Candidacy (ATC) Appeals</strong></th>
<th><strong>Graduate Appeal of Residency Status</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Graduate Advisor, College Graduate Coordinator, or Department Chair</td>
<td>Coordinator, Graduate Continuing Student Services</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
</tr>
<tr>
<td>Dean, Graduate Studies</td>
<td>General Counsel, Chancellor’s Office</td>
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<table>
<thead>
<tr>
<th><strong>Course Substitutions</strong></th>
<th><strong>Graduate Course Challenges</strong></th>
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<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Graduate Advisor, College Graduate Coordinator, or Department Chair</td>
<td>Program Chair</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
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<tr>
<td>Dean, Graduate Studies</td>
<td>College Dean or Associate Dean</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Waiver of 12 Unit Pre-Program Limitation Requirement</strong></th>
<th><strong>Graduate Assessment of Course Prerequisites</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Level</td>
</tr>
<tr>
<td>First</td>
<td>First</td>
</tr>
<tr>
<td>Graduate Advisor or Program Chair</td>
<td>Instructor of Course</td>
</tr>
<tr>
<td>Second</td>
<td>Second</td>
</tr>
<tr>
<td>Dean, Graduate Studies</td>
<td>Program Chair</td>
</tr>
</tbody>
</table>
### Acceptance of Any Course in ATC Program Requirements

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Graduate Advisor or Coordinator of Graduate Program</td>
</tr>
<tr>
<td>Second</td>
<td>Program Chair</td>
</tr>
<tr>
<td>Third</td>
<td>College Graduate Coordinator</td>
</tr>
<tr>
<td>Fourth</td>
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### Graduate Course Waiting List Appeals

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Instructor of Course</td>
</tr>
<tr>
<td>Second</td>
<td>Program Chair</td>
</tr>
<tr>
<td>Third</td>
<td>College Dean or Associate Dean</td>
</tr>
</tbody>
</table>

### Graduate Retroactive Award of Degree

#### Within One Year

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Coordinator, Graduate Student Services</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Graduate Studies</td>
</tr>
</tbody>
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#### More than One Year

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Coordinator, Graduate Student Services</td>
</tr>
<tr>
<td>Second</td>
<td>Dean, Graduate Studies</td>
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### Graduate Withdrawal from Courses

#### Retroactive Course Withdrawal

<table>
<thead>
<tr>
<th>Level</th>
<th>Office</th>
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<tbody>
<tr>
<td>First</td>
<td>Instructor</td>
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<td>Second</td>
<td>Program Chair</td>
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<td>Third</td>
<td>College Dean</td>
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<td>Fourth</td>
<td>Board of Appeals and Review</td>
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#### Retroactive Semester Withdrawal

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<th>Level</th>
<th>Office</th>
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<tr>
<td>First</td>
<td>Registrar</td>
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<tr>
<td>Second</td>
<td>Board of Appeals and Review</td>
</tr>
</tbody>
</table>
Regulations and Procedures - Additional

Additional Information for Students

• Faculty Statement Of Course Requirements (p. 160)
• Student Concerns or Complaints about Actions Taken on Behalf of San Francisco State University (p. 160)
• Opportunities for Prospective Teachers (p. 160)
• Opportunities for Athletes (p. 160)
• Student Success and Graduation Rates (p. 161)

Privacy Rights of Students in Education Records

• Privacy Rights of Students in Education Records (p. 161)
• Requirement and Use of Social Security Number (p. 161)
• University Identification Number (p. 161)
• Career Placement: Data On Former Students (p. 162)

Cost of Education

• Availability of Institutional and Financial Assistance Information (p. 162)
• Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees (p. 162)

Residency

• Immigration Requirements For Licensure (p. 162)

Nondiscrimination Policy

• Nondiscrimination Policy (p. 163)

Campus Safety and Security

• Campus Safety and Security (p. 163)
• Student Conduct (p. 163)
• What You Need To Know About Drugs And Alcohol At San Francisco State University (p. 165)
• Federal Military Selective Service (p. 166)

Faculty Statement Of Course Requirements

Because students and their instructors share a common goal of a semester of learning in the best possible environment, students shall receive in writing, in the first or second meeting of a class:

• a statement of scope, content, and expected learning outcomes of the course;
• a list of texts and materials to be used throughout the course, including any additional fees or costs;
• a description of grading policy and practices;
• a description of teaching style (for example, fixed outline, lecture, discussion, class-directed, or evolutionary);
• a description of any substantive departure from the content published in the University Bulletin or Class Schedule.

Should budgetary demands require it, one posted document will suffice. During the semester, students shall be notified in writing of any substantive changes in the faculty statement of course requirements.

Student Concerns or Complaints about Actions Taken on Behalf of San Francisco State University

Students who have concerns or complaints about their relationships with the university; its policies, practices, and procedures; or its faculty and staff are strongly encouraged to follow the informal concerns and complaints process as outlined at www.sfsu.edu/~vpsa/complaints/(http://www.sfsu.edu/~vpsa/complaints).

If after following the informal process, the concern or complaint remains unresolved, students may pursue a formal complaint. For questions about the process, please contact the Office of the Senior Associate Vice President & Dean of Students in the Student Services building room 403.

Off-Campus Grievance Procedure for Students

The California State University takes very seriously complaints and concerns regarding the institution. If you have a complaint regarding the CSU, you may present your complaint as follows:

1. If your complaint concerns CSU’s compliance with academic program quality and accrediting standards, you may present your complaint to the Western Association of Schools and Colleges (WASC) at www.wascenior.org/comments (http://www.wascenior.org/comments). WASC is the agency that accredits the CSU’s academic program.

2. If your complaint concerns an alleged violation by CSU of a state law, including laws prohibiting fraud and false advertising, you may present your claim to the office of the Vice President & Title IX Coordinator. This office will provide guidance on the appropriate campus process for addressing your particular issue. If you believe that your complaint warrants further attention after you have exhausted all the steps outlined for you, you may file an appeal with the Associate Vice Chancellor, Academic Affairs at the CSU Chancellor’s Office. This procedure should not be construed to limit any right that you may have to take civil or criminal legal action to resolve your complaint.

Opportunities for Prospective Teachers

Information concerning teacher preparation programs at San Francisco State University, including the pass rate on teacher certification examinations, may be obtained from the Credential and Graduate Services Center in the College of Education, Burk Hall 244.

Opportunities for Athletes

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that SF State dedicates to its men’s and women’s teams may be obtained from Charles Guthrie, Director of Athletics (415) 338-7567.
Student Success and Graduation Rates

Information regarding student retention and graduation rates at SF State and, if available, the number and percentages of students completing the program in which the student is enrolled or has expressed interest may be obtained from the Office of the Assistant Vice President for Enrollment Management located in the Student Services building room 108, (415) 338-2163.

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus, and the release of such records. The law provides that the campus must give students access to most records directly related to the student, and must also provide opportunity for a hearing to challenge the records, if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The institution has adopted a set of policies and procedures governing implementation of the statute and the regulations. Copies of these policies and procedures may be obtained on the web at www.sfsu.edu/~admisrec/reg/ferpa.html (http://www.sfsu.edu/~admisrec/reg/ferpa.html) or in the Registrar's Office. Among the types of information included in the campus statement of policies and procedures are:

1. the types of student records maintained and the information they contain;
2. the official responsible for maintaining each type of record;
3. the location of access lists indicating persons requesting or receiving information from the record;
4. policies for reviewing and expunging records;
5. student access rights to their records;
6. the procedures for challenging the content of student records;
7. the cost to be charged for reproducing copies of records; and
8. the right of the student to file a complaint with the Department of Education.

The Department of Education has established an office and review board to investigate complaints and adjudicate violations.

The designated office is:
Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, D.C. 20202–5920

The campus is authorized under the Act to release "directory information" concerning students. San Francisco State University policy is more restrictive than the Federal and State Act and limits directory information to the student’s name, current enrollment status (e.g., undergraduate or graduate, full-time or part-time), class level, major, degrees earned, semesters of enrollment, and extra-curricular achievements. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying what information the student requests not be released. Written objections should be sent to the registrar.

A student can request that non-directory information (including address) be released to agencies of the State of California when requested for employment recruitment purposes under the provisions of Assembly Bill 771 (Chacon). Written requests to release non-directory information should be directed to the registrar. Forms are available for this purpose at the One Stop Student Services Center.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus’ academic, administrative, or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. Student records may also be disclosed to the Chancellor’s Office of the California State University in order to conduct research, to analyze trends, or to provide other administrative services on behalf of the CSU. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

In addition to those safeguards provided by the Family Education Rights and Privacy Act of 1974, the university’s policy allows the release of personally identifiable information to others (except to verify student status) only with the student’s prior consent or in the case of extreme emergency or where there is clear and imminent danger to the student, to others, or to society.

Requirement and Use of Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The university uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the university to file information returns that include the student’s social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes. The SSN is also required by the Franchise Tax Board for collection of returned checks.

University Identification Number

For student records and services, the University uses an assigned University Identification Number (UIN). Students are required to write their UIN on university petitions and forms as well as personal checks submitted for any payment to the University. Payment by personal check is consent by the student for the University to write the student’s UIN on the check if it is not referenced.
Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees

The law governing the California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The campus President may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the University. Student body association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs. A student body center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). Once bonds are issued, authority to set and adjust student body center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum as established by Executive Order 1102, Section III. The campus president may use alternate consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus president. The President may adjust campus-based mandatory fees, but must request the Chancellor establish a new mandatory fee. The President shall provide to the fee advisory committee a report of all campus-based mandatory fees. The campus shall report annually to the Chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the Budget Office in the CSU Chancellor’s Office at (562) 951–4560.

Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104–193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the new Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation is available from the Office of International Programs, The Village at Centennial Square, Building C, Room 138, (415) 338–1293.
Nondiscrimination Policy

Race, Color, Ethnicity, National Origin, Age, and Religion
The California State University does not discriminate on the basis of race, color, ethnicity, national origin, age, or religion in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination.

Disability
The California State University does not discriminate on the basis of disability in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination.

Sex/Gender/Gender Identity/Sexual Orientation
The California State University does not discriminate on the basis of sex, gender, gender identity or sexual orientation in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination.

The California State University is committed to providing equal opportunities to male and female CSU students in all campus programs, including intercollegiate athletics.

For more information on San Francisco State University’s efforts in creating a sexual harassment free campus, visit titleix.sfsu.edu (http://titleix.sfsu.edu).

Inquiries Concerning Compliance
Inquiries concerning compliance or the application of these laws to programs and activities of San Francisco State University may be referred to The Associate Vice President for Student Affairs/Enrollment Management at (415) 338–2016 or concerns@sfsu.edu or to the Regional Director of the Office for Civil Rights
United States Department of Education
50 Beale Street, Suite 7200
San Francisco, California 94105.

HIV/AIDS Policy
HIV/AIDS Policy: Students and employees with HIV/AIDS shall be afforded unrestricted classroom attendance, working conditions, use of university facilities, and participation in co-curricular and extra-curricular activities as long as they are physically and psychologically able to do so.

For more information, individuals are encouraged to contact Student Health Services, members of the AIDS Coordinating Committee (415) 338–7339, Human Resources Department, Office of Faculty Affairs, or the Dean of Students office.

Campus Safety and Security

Campus Security Report
San Francisco State University’s annual security report includes statistics for the previous three years concerning reported crimes that occurred on-campu, in certain off-campus buildings or property owned or controlled by San Francisco State University, and on public property within or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. You can obtain a copy of this report and annual fire safety report by contacting the Department of Campus Safety at the following website: upd.sfsu.edu (http://upd.sfsu.edu)

Information concerning San Francisco State University’s policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may also be obtained from the Department of Campus Safety.

Computer Security
Legitimate computing for educational uses is encouraged. However, some may be tempted to abuse this privilege, but not be aware of the legal aspects of computer crime. If San Francisco State University computers are illegally used, California Penal Code 502 states that the offender may be found guilty of a felony, which is punishable by a fine not exceeding $10,000, imprisonment for 16, 24, or 36 months, or by both fine and imprisonment. Any student who illegally uses the SF State computer system may be subject to suspension or expulsion from the university.

Computer security is the responsibility of everyone. All users should read the SF State Information Security Program Guide, which covers policies, procedures, proper uses, and misuse of computing systems: http://policiesandpracticedirectives.sfsu.edu/content/reporting-it-security-incident-or-vulnerability-policy

Sexual Violence
San Francisco State University does not tolerate acts of sexual violence. All reported instances of sexual violence are investigated and appropriate disciplinary, criminal, and/or legal action is taken, with the consent of the victim. Appropriate support services are made available to students, faculty, or staff who are victims of sexual violence. For more information, please visit: titleix.sfsu.edu (http://titleix.sfsu.edu)

Student Conduct

Title 5, California Code of Regulations § 41301. Standards for Student Conduct

The University is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community must choose behaviors that contribute toward this end. Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

1. Student Responsibilities: Students are expected to be good citizens and engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

2. Unacceptable Student Behaviors: The following behavior is subject to disciplinary sanctions:
   a. Dishonesty, including:
      i. Cheating, plagiarism, or other forms of academic dishonesty
         that are intended to gain unfair academic advantage.
ii Furnishing false information to a university official, faculty member, or campus office.
iii Forgery, alteration, or misuse of a university document, key, or identification instrument.
iv Misrepresenting oneself to be an authorized agent of the university or one of its auxiliaries.

b. Unauthorized entry into, presence in, use of, or misuse of university property.
c. Willful, material and substantial disruption or obstruction of a university-related activity, or any on-campus activity.
d. Participating in an activity that substantially and materially disrupts the normal operations of the university, or infringes on the rights of members of the university community.
e. Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus university related activity.
f. Disorderly, lewd, indecent, or obscene behavior at a university-related activity, or directed toward a member of the University community.
g. Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
h. Hazing, or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term “hazing” does not include customary athletic events or school sanctioned events. Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
i. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
j. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on campus or at a university related activity.
k. Theft of property or services from the university community, or misappropriation of university resources.
l. Unauthorized destruction, or damage to University property or other property in the university community.
m. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a university related activity.
n. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
o. Misuse of computer facilities or resources, including:
   i Unauthorized entry into a file, for any purpose.
   ii Unauthorized transfer of a file.
   iii Use of another's identification or password.
   iv Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University Community.
   v Use of computing facilities and resources to send obscene or intimidating and abusive messages.
   vi Use of computing facilities and resources to interfere with normal University operations.
   vii Use of computing facilities and resources in violation of copyright laws.
   viii Violation of a campus computer use policy.
p. Violation of any published university policy, rule, regulation or presidential order.
q. Failure to comply with directions of, or interference with, any university official or any public safety officer while acting in the performance of his/her duties.
r. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the university community, to property within the university community or poses a significant threat of disruption or interference with university operations.
s. Violation of the Student Conduct Procedures, including:
   i Falsification, distortion, or misrepresentation of information related to a student discipline matter.
   ii Disruption or interference with the orderly progress of a student discipline proceeding.
   iii Initiation of a student discipline proceeding in bad faith.
   iv Attempting to discourage another from participating in the student discipline matter.
   v Attempting to influence the impartiality of any participant in a student discipline matter.
   vi Verbal or physical harassment or intimidation of any participant in a student discipline matter.
   vii Failure to comply with the sanction(s) imposed under a student discipline proceeding.

1. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

3. Application of this Code Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

4. Procedures for Enforcing this Code The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an
opportunity to be heard before the University imposes any sanction for a violation of the Student Conduct Code.

5. Summary of Civil and Criminal Penalties for Violation of Federal Copyright Laws
As referenced earlier in Section XXI, Student Conduct (15) (G) the penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or “statutory” damages affixed at not less than $750 and not more than $30,000 per work infringed. For “willful” infringement, a court may award up to $150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys’ fees. For details, see Title 17, United States Code, Sections 504, 505. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to $250,000 per offense.

Title 5, California Code of Regulations § 41302. Disposition of Fees: Campus Emergency, Interim Suspension.

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 working days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

What You Need To Know About Drugs And Alcohol At San Francisco State University

San Francisco State University is committed to providing a safe and healthy environment for the campus community. The use of alcohol and other drugs should not interfere with the university’s educational mission.

The University expects every student, faculty member, staff member, and administrator to be aware of and comply with all local, state, and federal laws regarding the unlawful possession, distribution, or use of illegal drugs and alcohol.

It is the policy of San Francisco State University that the unlawful manufacture, distribution, dispensation, possession, or use of illegal drugs on the University campus, or at any University-sponsored event off campus, is prohibited. No one may use illegal substances, or abuse legal substances, including alcohol, in a manner which impairs performance of assigned tasks. A more complete description of these regulations is contained in University Directive #89-12 (The Alcohol and Drug Policy) and University Directive #90-15 (Policy on Substance Abuse in the Workplace) which are available at Human Resources Office, the Office of Faculty Affairs, the Office of the Senior Associate Vice President & Dean of Students.

State Laws regarding driving while under the influence of alcohol:

- A police officer can confiscate the license of any driver suspected to be driving under the influence who refuses to take a blood alcohol concentration (BAC) test.
- Anyone under 21 found in possession of alcohol can have their driver’s license taken away, even if the underage person was not drinking, drunk, or driving.

Disciplinary Action

STUDENTS: The manufacture, distribution, possession, or use of illegal drugs or illegal use of alcohol may result in either probation, suspension, or expulsion from the University and/or the CSU system.

EMPLOYEES: Those found to be in violation of University policy may be subject to corrective action, up to and including dismissal, or may be required, at the discretion of the University, to participate satisfactorily in an approved counseling or rehabilitation program. All members of the campus community may be subject to criminal prosecution for violation of applicable local, state, or federal laws.

Consider the Following:

After drinking, have you ever engaged in unplanned sexual activity? All alcohol (beer, wine, and hard liquor) decreases one’s ability to use good judgment and act according to their own desires if consumed beyond capacity. People practice less safe sex when under the influence, more unintended pregnancies occur, more regretted sex and sexual assaults occur, and more sexually transmitted infections occur.

Have you ever taken speed or stimulants (methamphetamine or prescription drugs such as Ritalin) to help you stay awake to meet a deadline? The initial effect of speed is increased alertness, increased sense of well-being, and the ability to stay awake. Most stimulant drugs are short acting (6-12 hours). As the drug wears off, withdrawal sets in. The user may become irritable, disinterested in the tasks at hand, need sleep, and can be agitated—just around the time you need to be at your best. In addition, methamphetamine is particularly hard on the body. It contains toxic substances and is extremely stressful on the heart.

How much can I drink and legally operate a vehicle? Many factors influence your blood alcohol level—such as body weight, gender, amount consumed, amount of food eaten, mood, body temperature, and previous drinking experience. As little as one drink may produce blood alcohol levels greater than the legal limit. The safest and smartest approach is to ask a non-drinking friend to drive if you drink, or designate a driver who will not drink.

Do you use cocaine to give you an “edge” in your studies or at work? Most people start using cocaine because it makes them feel “more” something—more confident, more alert, more attractive, more intelligent, more energetic. But these effects of the drug last only a few minutes and leave the user feeling worse than they felt before. This sets up a cycle.
of craving the drug to feel good again, and repeated use to avoid feeling bad. Eventually, not only do you lose your “edge,” but you can’t even stay in the game. Cocaine can cause dramatic changes in blood pressure, as well as heart and breathing rates. One-time, occasional use or using small amounts have all been known to cause breathing to stop, stroke, or death.

Do you smoke marijuana to forget problems with your studies or work responsibilities? If your answer is yes, the drug may be working better than you think. Marijuana can disturb both the process of formation and storage of memory. Even occasional use can result in memory impairment. It can also adversely affect your ability to concentrate on school and work assignments. With continued use, long-term learning problems can occur as well as a reduction in motivation. This can lead to a further decline in performance of academic and job-related responsibilities. In addition, short-term effects include slower than normal reaction time and increased heart rate. There are over 400 chemicals contained in marijuana. One joint contains 50% more tar than a cigarette.

Where To Go for Help
On-Campus (Confidentiality assured)
For students:

- Counseling & Psychological Services (http://psyervs.sfsu.edu/content/AODcounseling): SSB 208, (415) 338-2208
- For medical appointments, Student Health Services (http://health.sfsu.edu/content/appointments): (415) 338-1719
- For educational programming, Health Promotion & Wellness (http://wellness.sfsu.edu/alcohol-tobacco-and-other-drugs): Cesar Chavez Student Center, M-113C, (415) 338-7791

For everyone:

- Alcoholics Anonymous on-campus meetings: Sober@State (http://psyervs.sfsu.edu/content/resources-0)

Off-Campus-- San Francisco

- Bayview-Hunter’s Point Foundation for Problem Drinkers, 1625 Carroll, (415) 822-8200
- List of Community Low-Fee Programs (http://psyervs.sfsu.edu/content/resources-0)

Meeting information for support groups:

- Alcoholics Anonymous: www.aasf.org (http://www.aasf.org)
- Al-Anon & Al-Ateen: www.al-anon.org (http://www.al-anon.org)
- Adult Children of Alcoholics: www.adultchildren.org (http://www.adultchildren.org)
- Nar-Anon: www.nar-anon.org (http://www.nar-anon.org)
- Co-dependents Anonymous: www.sfbaycoda.org (http://www.sfbaycoda.org)
- Cocaine Anonymous: www.ca.org (http://www.ca.org)
- Overeaters Anonymous: www.oasf.org (http://www.oasf.org)
- Marijuana Anonymous: www.marijuana-anonymous.org (http://www.marijuana-anonymous.org)

Federal Military Selective Service

The federal Military Selective Service Act (the “Act”) requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at www.sss.gov (http://www.sss.gov).
RESOURCES AND SUPPORT SERVICES

Alternative Learning Opportunities
- Cooperative Education Program (p. 167)
- Credit by Evaluation for Experiential Learning (CEEL) (p. 167)
- Departmental Internship Programs (p. 168)

Athletics and Sports
- Campus Recreation/Mashouf Wellness Center (p. 168)
- Intercollegiate Athletics (p. 168)

Belonging to SF State
- Alumni Association (p. 170)
- San Francisco State University Bookstore (p. 170)
- Student Government (p. 170)
- Transportation and Parking (p. 172)

AB 540 & Undocumented Students

Career Services

Class Schedule

Community Service Learning

Counseling and Psychological Services

Disability Programs and Resource Center

Educational Outreach Programs and Services
- Educational Opportunity Program (p. 177)
- Guardian Scholars Program (GSP) (p. 177)
- Student Support Services (SSS) (p. 177)
- Mesa Engineering Program (MEP) (p. 177)
- Metro College Success Program (p. 177)
- Step to College (p. 178)
- Student Outreach Services (p. 178)
- Veterans Benefits (p. 178)

Fitness and Wellness Opportunities
- Campus Recreation (p. 178)
- Village Fitness Center (p. 178)

Housing

Information Resources: Library, Academic Technology and Information Technology
- Academic Technology (p. 180)
- Information Technology Services (p. 180)
- The J. Paul Leonard Library (p. 181)

Military Studies

Office of International Programs

Literary, Performing, Visual, and Media Arts

Research and Special Learning, and Media Arts

Research and Special Learning, and Media Arts
- The Global Museum (p. 185)
- American Language Institute (p. 185)
- The Geography Map Library (p. 185)
- Centers and Institutes in the College of Business (p. 186)
- The Marian Wright Edelman Institute for the Study of Children, Youth and Families (p. 186)
- Center for Integration and Improvement of Journalism (p. 186)
- Center for Modern Greek Studies (p. 187)
- Moss Landing Marine Laboratories (p. 187)
- The Poetry Center and American Poetry Archives (p. 187)
- Romberg Tiburon Center (p. 187)
- Sierra Nevada Field Campus (p. 188)

Special Enrollment Programs
- The San Francisco Consortium (p. 188)
- Cross Registration Program: University of California, Berkeley (p. 188)
- CSU Intrasystem and Intersystem Enrollment Programs (p. 189)
- The California State University International Programs (p. 189)

Student Health Service

Testing Center

Tutoring Services and Academic Support

Alternative Learning Opportunities

Cooperative Education Program

The Cooperative Education Program offers students an opportunity to receive credit for academically relevant field assignments in which theoretical course work can be applied to real-world problems. Students may receive credit from one unit for part-time work to 12 units for full-time work. Units are not intended to replace general education or major curricular course work. Student free elective units may be substituted upon approval of advising faculty or the cooperative education faculty coordinator within the student’s major field of study. This program is open to all university majors. For further information, email coop@sfu.edu or call (415) 338-1050.

Credit by Evaluation for Experiential Learning

Credit by Evaluation for Experiential Learning (CEEL) is designed to meet the needs of students whose university-level prior learning experiences can be evaluated for credit towards certain general education, major, or elective requirements of the University. Credit is offered only after a comprehensive and searching evaluation by a faculty member in the area for which credit is sought and approved by a team of assigned faculty members. Two types of credit can be earned through CEEL: Residence and Non-Residence Units.
Residence Units
Students who work closely with an SF State faculty member and develop an extensive portfolio regarding prior learning can earn a maximum of six residence units under CEEL 300.

Non-Residence Units
Through the portfolio process, a student can earn a maximum of 30 units beyond the six CEEL course credits above. These 30 units will be recorded on the SF State transcript as “Advanced Standing” and are considered transfer credits. These units will not meet SF State residence requirements toward the baccalaureate degree.

Enrolled students should contact the CEEL Coordinator in the Advising Center for further information.

Amount of Credit
Credit for prior “Advanced Standing” will not exceed 30 units including any units for experiential learning which may be accepted as a result of California State University policy from other institutions. The faculty in any academic program may set additional limits on the number of experiential learning units accepted, or required, for majors or minors in that program.

Departmental Internship Programs
There are internship programs offered in the academic curricula of San Francisco State University. Internships have become the major factor in gaining employment after graduation. The Office of Career Services & Leadership Development can assist students in their search for appropriate internships. Please visit: careerservices.sfsu.edu/ (http://careerservices.sfsu.edu)

Athletics and Sports

Intercollegiate Athletics
The Department of Athletics is a member of the California Collegiate Athletic Association (CCAA), the nation’s premier National Collegiate Athletic Association (NCAA), Division II conference. SF State is an associate member of the Rocky Mountain Athletic Conference (RMAC) in the sport of wrestling. The University is permitted to offer athletically based financial aid to qualified student-athletes. Approximately 240 student-athletes participate in the athletic program annually at San Francisco State. The CCAA is comprised of Cal. Poly, Pomona, Cal. State Dominguez Hills, Cal State East Bay, Cal. State Monterey Bay, Cal. State Los Angeles, Cal. State San Bernardino, Cal. State Stanislaus, Chico State, Humboldt State, Sonoma State, U.C. San Diego, and San Francisco State.

Mission
Intercollegiate athletics is an integral component of the academic experience at San Francisco State University. The specific mission is to provide a broad-based athletics program that fosters the physical, intellectual, social, and emotional development of diverse and highly skilled student-athletes. Intercollegiate athletics are an important part of the heritage and vitality of the University and provide an opportunity for students to share experiences and by doing so, enhance the cohesiveness of campus life. The department’s efforts to accomplish this mission reflect the University’s quest for excellence.

The SF State athletics program is an important aspect of the total educational program—professional, personal, and intellectual enrichment. Coaches and staff are concerned with the academic work of each student-athlete. Their goal is to see that SF State student-athletes graduate from the University with their chosen degree and to become a contributing factor in the community.

The athletic program consists of twelve (12) NCAA Division II teams, five (5) for men and seven (7) for women. The NCAA sanctioned sports include:

<table>
<thead>
<tr>
<th>Women</th>
<th>Men</th>
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<tbody>
<tr>
<td>Basketball</td>
<td>Baseball</td>
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<tr>
<td>Cross Country</td>
<td>Basketball</td>
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<tr>
<td>Soccer</td>
<td>Cross Country</td>
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<tr>
<td>Softball</td>
<td>Soccer</td>
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<tr>
<td>Track &amp; Field (indoor/outdoor)</td>
<td>Wrestling</td>
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<td>Volleyball</td>
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Athletic facilities used by intercollegiate athletic teams include: Cox Stadium (men’s and women’s soccer, women’s track and field), Main Gymnasium (men’s and women’s basketball, women’s volleyball, wrestling), Maloney Field (baseball), SF State Softball Field, Golden Gate Park’s Speedway Meadows (men’s and women’s cross country). Also, the Gator Conditioning Center is a fitness-related facility utilized by all student-athletes.

Features of the athletics program include:
• The Gators Club—the official booster club of Gator Athletics
• Annual golf tournament, auction, and other special events
• Membership in the NCAA LifeSkills Program
• Official SF State Athletics website: sfstatagators.com (http://sfstatagators.com)
• Gator Sports Hotline: (415) 338–6096

For more information about SF State Athletics, please call (415) 338–2218.

Campus Recreation/Mashouf Wellness Center
The Mashouf Wellness Center (opening Fall 2017) will offer recreation and wellness programs and activities for the SF State campus community. Serving as a new social center for the campus, the Center supports campus wellness and healthy living. The Mashouf Wellness Center is a student-driven wellness center whose mission is to guide personal development through transformative activities, foster a sense of belonging within our community, and to help promote a culture of health and wellness across the University. Currently enrolled students may gain entry by showing their SF State ID card. Memberships are available for purchase by SF State faculty, staff, and alumni.

Features of the Mashouf Wellness Center include: a climbing wall, massage therapy studio, three exercise studios, two gymnasium spaces, outdoor resource center, indoor pool facility with spa and sauna, spacious cardio and strength equipment areas, a jogging track, two racquetball/squash courts, locker room facilities, a juice bar, and a recreation field.

The Mashouf Wellness Center is located at the corner of Font and Lake
Merced Boulevards and hopes to obtain LEED Platinum certification from the US Green Building Council.

Campus Recreation offers programs providing opportunities for all students to participate in activities in either a structured or drop-in basis. The goal of the staff is to encourage fun, fair play, and participation for all in a safe environment.

Intramural sports leagues are offered in the Fall and Spring semesters with options for men's, women's, and coed recreation. Current sports include: indoor and outdoor soccer, flag football, volleyball, and basketball. Students may register as a team or join as a free agent. Most leagues play weekly and have no team fee. Campus-wide special events include Costume Dodgeball and the SF State 5K Walk, Run, Roll.

Sport clubs are student-led organizations that meet regularly to pursue an interest in a competitive collegiate activity at the state, regional, and national levels. Sport clubs provide opportunities for students to enhance their collegiate experience. Sport clubs serve as an excellent setting for the development of athletic skills and leadership while providing important social outlets.

The informal recreation and aquatics programs are offered on a drop-in basis. Activities include: basketball, volleyball, indoor soccer, badminton, weight training, and swimming. Group X classes are led by certified instructors in Zumba, Yoga, Piyo, etc. These activities have no fee, but participants must show their SF State ID.

Prior to the Mashouf Wellness Center opening, the Campus Recreation office can be found in the Student Services Building (SSB) room 206. For more information about Campus Recreation or the Mashouf Wellness Center visit us, call (415) 405-4328, or visit www.sfsu.edu/~recsport (http://www.sfsu.edu/~recsport) and dos.sfsu.edu/mwc (http://dos.sfsu.edu/mwc).
Belonging to SF State Alumni Association

The Alumni Association exists to advance the reputation and interests of the University, its administration, faculty, students, and graduates; to engage in educational programs and special activities for its members; and to provide an ongoing link between the University and its graduates for their mutual benefit. It is also a source of financial assistance in the form of scholarships.

Membership is open to those who

1. have been awarded a degree or credential by the University;
2. are members of the faculty or administrative staff;
3. have attended the University as a graduate student for at least two semesters; or
4. have attended the University as an undergraduate for at least two semesters.

In addition, "Friends of the University" may join the Alumni Association through Affiliate membership. This membership is open to any person demonstrating an interest in San Francisco State University.

Among the current benefits of membership are privileges for use of the University library, and all other CSU libraries, access to the career center and MonsterTRAK.com, eligibility for an Association-sponsored health plan, a subscription to SF State Magazine, and a variety of other discounts. Benefits are added regularly.

Additional information is available at the:

Alumni Association Office
San Francisco State University
1600 Holloway Avenue
Room 153
San Francisco, CA 94132
or call (415) 338–2217
The Alumni Association can be reached by email at alumni@sfsu.edu.

San Francisco State University Bookstore

Located in the Student Center, the SF State Bookstore offers a variety of products and services. New and used textbooks, computer hardware and software, supply and electronic items, general reading books, gifts, and SF State souvenirs can be purchased in the main store. The Bookstore also includes the Lobby Shop and Snackademic for quick, convenient snacks and beverages.

Mission Statement

The Bookstore provides outstanding services, products, and customer satisfaction to the University community.

Semester Hours

Monday-Thursday: 7:45 a.m.–7:00 p.m.
Friday: 7:45 a.m.–5:00 p.m.
Saturday: 11:00 a.m.–3:00 p.m.
ucorp.sfsu.edu/bookstore (http://ucorp.sfsu.edu/bookstore)

The SF State Bookstore has extended hours at the beginning of each semester. Reduced operating hours are in effect for the Winter, Spring, and Summer breaks. For more information, call (415) 338–2665.

Associated Students

ASSOCIATED STUDENTS (AS), the student government at San Francisco State University, serves as the official voice of the students. AS promotes an enriched curricular student life experience and is dedicated to the empowerment of SF State’s diverse student body through a commitment to social justice and shared governance. AS provides and supports services and programs, maintains fiduciary responsibility, and engages in campus-wide collaborations and external advocacy efforts.

The Associated Students (AS), established in 1944, is the official student body government. It functions as a non-profit, student-run corporation, and is funded by the student activity fee all students pay each semester. A portion of each student’s tuition fee goes to the Associated Students, making enrolled students automatic members and eligible to vote in the annual elections for AS leadership.

This means that SF State students can enjoy many of the events and programs provided by fellow students that might have cost them even more without this one-time semester fee. Explore our website asi.sfsu.edu (http://asi.sfsu.edu) to find out about all of our services and what AS can do for you! For more information about getting involved in Student Government, please contact the AS Business Office at (415) 338–1044 or (415) 338–2321 or stop and visit a Board Member in Cesar Chavez Student Center, M–1138.

We provide programming in three areas:

Culture and Social Justice

Art Gallery

Exhibitions feature student, faculty and professional work and advocates works of merit by all artists at any stage in their career. The gallery programs eight to ten exhibits and pop-up shows per year and hosts weekly events and monthly receptions during the Fall and Spring semesters. Three to four exhibits usually rotate per semester, and two to three occur during the summer. The Gallery operates in alignment with the Richard Oakes Multicultural Center to provide students with opportunities, resources, arts-related events, and a range of insightful and visually captivating artworks that reflect and actively engage with the community. The Art Gallery further strives to foster cross-cultural exchange with artists and audiences and produces some of San Francisco’s most socially relevant and visually compelling exhibits. Each show is dedicated to providing insight and information about aesthetic movements, contemporary issues, and/or social justice through interactive, multi-media and other visual modes.

Education and Referral Organization for Sexuality

Inclusive of all identities, backgrounds, and types of sexuality, EROS provides contemporary sexuality education through events, workshops, social media, performances, books and DVDs, and a referral database. EROS connects the campus community by providing presentations and information to students, classes, and organizations. EROS connects the greater San Francisco community by referring students to off-campus resources and collaborating with off-campus organizations for events. EROS introduces new students to their program with an annual open house and inspires all students to pursue sexuality in their professional lives with the annual Career Fair. EROS acclimates students to the diverse and open culture that is present in San Francisco, as well as
SF State, improving retention rates and campus pride. EROS promotes consent, tolerance, diversity, and health with the goal of students feeling empowered about themselves and their sexuality.

**Queer and Trans Resource Center**
Rooted in the ancestral legacy of queer activists and visionaries and San Francisco State University’s commitment to social justice and community engagement, the QTREC endeavors to offer LGBTQIA-related events, services, and resources to students. The Queer & Trans Resource Center will also serve as an umbrella organization linking various student organizations such as Queer Alliance, Pride Committee, and CEASE/Safe Place that work to create events and resources for the LGBTQIA community on campus. With the awareness that all forms of oppression are inherently interconnected, the Queer & Trans Resource Center will additionally focus on building alliances with ethnic, political, religious, and arts communities at San Francisco State University and beyond. The center is open to all students who wish to join in our efforts to promote awareness and understanding of LGBTQIA-related identities, issues, and culture.

**Richard Oakes Multicultural Center**
The Richard Oakes Multicultural Center is a space for cultural events and discussions that focus on everything from inspirational leaders to commemorative months. The Center also provides a collaborative and supportive environment that promotes a multi-ethnic, culturally conscious university that affirms the human and intellectual heritage of all people. The Center encourages and welcomes all members of the University and greater community to initiate or participate in its student-focused and directed programs and activities.

**Women's Center**
The Women's Center functions as a resource, referral, and educational program for the campus community and deals specifically with issues concerning the lives of women. WC is dedicated to providing an open, encouraging and nurturing environment for the students of San Francisco State University. The basis of the foundation is to provide a safe place for women of any and all backgrounds. The WC is open to everyone (man or woman) who would like to come together and participate in promoting the understanding of various perspectives and issues pertaining to women.

**Education and Equity**

**Early Childhood Education Center**
Our mission is to assist student parents with their goal of obtaining a college degree by providing them with high-quality, convenient and affordable childcare for their young children. Our educational philosophy draws upon a variety of educational approaches to support each child’s optimum growth and development as well as make children’s learning visible. To meet the needs of student parents, we are open year-round from 7:30 a.m. to 5:30 p.m. Monday through Friday, and offer full and part-time childcare schedules. We operate four programs throughout the year to match the University’s four enrollment periods for fall and spring semesters and winter and summer sessions. We are closed for University holidays, Spring Break, Fall Recess and all other non-instructional days. As a campus-based childcare program, we also provide opportunities for student employment and early childhood teacher training.

**Legal Resource Center**
Our mission is to educate the SF State community on their legal rights, helping empower them when confronted with stressful legal issues. Our on-site attorney is well versed in California law and meets with students and staff for low-fee consultations. The expected outcomes for students who seek counseling from the Legal Resource Center: Straightforward answers to basic legal questions, no advice just information, referrals to pro-bono/low fee Bay Area legal aid, an opportunity to meet with an expert attorney for $10.00, a full legal library and informative legal brochures and pamphlets, and a kind, supportive staff of students who research client’s issues.

SF State offers two courses that work with our office. These classes educate students on important areas of law and allow them to gain experience in a Legal Office. Each course is worth three units. COUN 630 and COUN 631 will count as credit towards the completion of a CJ major/minor as well as a COUN minor. Students who join the Legal Resource Center can expect to learn the following: how to conduct intakes when interviewing clients, conduct legal research, legal resources available in the Bay Area, how to get into law school, basic knowledge on various areas of California Law, and how to research civil codes/laws in California. The counseling classes can also serve as a stepping-stone into potential employment with the LRC.

**Project Connect**
AS! Project Connect (http://asi.sfsu.edu/programs/project-connect) exists to empower and involve the student body to promote higher education and facilitate graduation for low-income and historically underrepresented communities. The following programs make up Project Connect:

**Internship**
The AS! Project Connect Internship program offers SF State students the opportunity to earn university credit for their community service hours provided on/off campus as mentors and service referral providers. SF State students must sign up for the ETHS 697 class offered for Project Connect. Student may also be registered through Community Service Learning (CSL) program in the College of Ethnic Studies or the Community Involvement Center (CIC) on campus. AS! Project Connect will serve as an agency for these students to volunteer their time.

**Recruitment**
Interns in the recruitment department will learn outreach skills and how to navigate the bureaucracy within the public school system. Interns will serve as mentors, role models and tour guides to students visiting our campus.

**Retention**
Interns in the Retention department will become familiar with retention services and resources available on campus such as financial aid, advising and tutoring services, university graduation requirements and general information about SF State.

**Book Loan**
Students are limited to borrow up to two books per semester. Students can only borrow books that are on-hand in the AS Project Connect Book Loan Inventory.

**Project Rebound**
Supporting the formerly incarcerated on their journey through successful reintegration in a college setting, Professor John Irwin created Project Rebound in 1967 as a way to matriculate people into San Francisco State University directly from the criminal justice system. The focus of Project Rebound quickly became “Education as an Alternative to Incarceration” and “Turning Former Prisoners into Scholars” after being embraced by Associated Students Incorporated. Since the program's inception, there
have been hundreds of formerly incarcerated folks who have obtained four–year degrees and beyond.

**Environmental Resource Center**

ERC focuses on increasing sustainability throughout the campus. Our team works towards promoting zero waste, educating students on various social justice and environmental issues, hosting informative environmental events/workshops, and providing sustainability resources for students on campus. Our mission is to make sustainability easy, accessible, and fun!

**Events and Entertainment**

**Programs & Services**

It is managed by a professional staff, with key positions held by SF State students. Programs & Services’ mission is to provide a wide and culturally diverse variety of events, both entertaining and culturally enriching, for the SF State student body and Bay Area public. We strive to keep admission costs as low as possible for students and seniors. In booking music, we strive to present a variety of styles, as suits the diversity of our student body. We have somewhat of a leaning towards local and independent artists, and roots and indigenous styles. For updates or further information, call us!

**Rack-N-Cue**

Take a break between classes! We’ve got over 20 awesome arcade games to give you a break from your busy life or play anytime on our professional Brunswick pool tables. You can also battle it out during our bi-monthly video game tournaments or compete in our weekly individual 9-ball tournaments. Rack-N-Cue has Air Hockey, DDR Extreme, Max Tune 3, Initial D 5, Drummania 10th Mix, Silent Scope, Point Blank 2, Super Puzzle Fighter 2, Strikers 1945, Super Street Fighter 4 Arcade Edition, Ultimate Marvel vs. Capcom 3, Street Fighter 3rd Strike, Capcom vs. SNK 2, Marvel vs. Capcom, Street Fighter vs. X-Men.

**The Depot**

Our mission is to provide a public space that encourage’s collaboration between students, local/touring artists, and the greater San Francisco community in a creative environment. The Depot ultimately hopes to foster relationships among professional performers and SF State students. The Depot hosts music shows, open mics, poetry events, art socials, dance nights, comedy and improv events, film screenings, and much more. All shows are for all ages and they are free and open to the public unless otherwise noted. All music shows usually start around 6:00 p.m. and end when curfew hits at 9:30 p.m. All booking inquiries are done over email, so please no calls. If you have any questions or are interested in performing at The Depot, please contact us at thedepot@asi.sfsu.edu (thedeport@asi.sfsu.edu).

**Transportation and Parking**

San Francisco State University is readily accessible by public transportation from all parts of the Bay Area. Six San Francisco Municipal Railway (MUNI) bus and light rail lines serve the campus at frequent intervals. East Bay commuters have a choice of BART and connecting bus service, or BART and light rail from downtown San Francisco. BART and SamTrans link the Peninsula and the San Francisco Airport with the campus. SF State University operates a shuttle service to supplement the BART connection between campus and the Daly City BART station.

The Bike Barn provides secure bicycle parking. Hours of operation are Monday – Thursday from 7:30 a.m. to 10:00 p.m. and 7:30 a.m. to 5:00 p.m. on Fridays during the fall and spring semesters. The Bike Barn is located under the gym in Lot 6. You can reach the Bike Barn at (415) 338-3170.

The campus is a typical urban setting and parking on surrounding streets is very limited. Approximately 3,000 spaces are available on a first-come basis in the general parking garage, located on the east side of Lake Merced Boulevard between Font and Winston Drive and Lot 25, which is located on Winston Drive between Lake Merced and Buckingham Way. Parking fees are $4.00 for two hours or $7 for the day. Daily permits expire at midnight. Two-day permits are available for $14. Parking permit pay stations accept bills, debit, and credit cards. A valid SF State permit is required 24 hours a day, 7 days a week in all lots.

For general information, please visit http://parking.sfsu.edu. You can contact Parking and Transportation at (415) 338-2744 or by email at parking@sfsu.edu with your inquiries.

**AB 540 & Undocumented Students**

The AB 540 and Undocumented Students program supports the undocumented student population including those who may or may not qualify for AB 540. We are located in a resource center in Mary Park Hall that offers resources and support to current and incoming undocumented students or students with mixed status families. On our website (http://undocugators.sfsu.edu), you will find information about our resources that support the academic and personal success of our undocumented students. All students have the right to attend any public college or university in California regardless of their immigration status. As a university, we encourage personal growth through participation in interactive programming and workshops that support the intersectionalities, multicultural/multiethnic identities, and holistic wellness of our students. SF State has a strong network of campus and community members that are committed to helping AB540 and undocumented students achieve academic excellence. Throughout the year, we will provide a series of leadership and professional opportunities, financial aid resources, connections to legal support, and informational workshops to give you the information you need to continue succeeding on campus.

Contact Us

Dream Resource Center

Phone: (415) 405-3503
Fax: (415) 338-6150
Email: dreamers@sfsu.edu

Website: http://undocugators.sfsu.edu

**AB 540 and Residency Status**

Assembly Bill 540 (https://undocugators.sfsu.edu/AB540) is a law that was passed in 2001 by the California legislature and was recently amended with Assembly Bill 2000 in 2015. The laws were written for students who are either undocumented or U.S. Citizens/Permanent Residents but are considered non-residents for tuition purposes. If these students meet specific requirements, such as attending a California public institution of higher learning, they are able to pay resident fees instead of non-resident fees.
AB 540/AB 2000 Eligibility Criteria

To qualify for paying “resident fees,” students must meet the following requirements:

- Attend a California high school for a minimum of three or more years; OR
- Have attained credits earned in California from a California high school equivalent to three or more years of full time high school course work and attending a combination of elementary, middle and/or high schools in California for a total of three or more years; AND
- Graduate from a California high school and pass the California High School Proficiency Exam OR get a GED (General Equivalency Diploma or Graduate from a California high school or the equivalent (for example: pass the California High School Proficiency exam or GED); AND
- Enroll in an accredited California institution of higher education (CCC, CSU, or UC)
- File a Non-Resident Tuition Exemption Affidavit with the school. In the case of students without legal immigration status, they must state that they have filed or will file an application to legalize their immigration status as soon as they are eligible to do so.

Steps for Submitting your AB 540 Affidavit for Undergraduates and Graduates

- Submit your completed Non-Resident Tuition Exemption Affidavit (http://www.sfsu.edu/~finaid/AB540/AB540AB2000Affidavit.pdf) and official high school transcripts by the first day of classes.
- If you are a SF State undergraduate student now applying to a graduate program at SF State you must ONLY re-submit your affidavit to the Division of Graduate Studies. No need to submit your Official Transcripts. All other graduate students must submit their official HS Transcripts AND Affidavit to the Division of Graduate Studies Admissions.
- AB 540 student status will not be official until final high school transcripts & affidavit are submitted and processed. Non-resident fees (http://www.sfsu.edu/future/costs/fees.html#regfees) will be charged until AB 540 status is approved.
- You will receive a letter or an email from the Admissions Office verifying your status as an AB 540 student (usually just prior to the beginning of classes).
- If you plan to pay out of pocket on the installment plan, bring a copy of the completed affidavit to your orientation and present it to the Bursar’s Office to ensure you will only be required to pay resident fees.

California Dream Act

- Complete the CA Dream Act Application (https://dream.csac.ca.gov) or the FAFSA (https://fafsa.ed.gov) application by the March 2 priority deadline. Please confirm your eligibility so that you can submit the correct application for federal and/or state financial aid.
- Begin looking for scholarships right away at www.sfsu.edu/~finaid/scholarships (http://www.sfsu.edu/~finaid/scholarships) and http://www.e4fc.org/scholarships.html. (http://www.e4fc.org/scholarships.html) Apply for as many scholarships as you can, with Spring being the most opportune time to search for the next academic year.
  - For more information check out our AB 540 Financial Aid page (http://www.sfsu.edu/~finaid/ab540).

Career Services & Leadership Development

Mission

Our mission is to help SF State students and alumni have fulfilling careers. To this end, we partner with businesses, philanthropists, NGOs, non-profit organizations, alums, SF State faculty, staff, and student organizations to assist SF State students and alumni in defining career goals that are consistent with their interests, skills, values, and personalities; in mastering the job search skills that will enable them to pursue those goals effectively; and in connecting with employers whose industry specific expertise will help them translate their academic achievements into professional success.

Contact Us

Student Services Building, Room 206
Phone: (415) 338-1761
Email: jobdev@sfsu.edu
Website: careerservices.sfsu.edu (http://careerservices.sfsu.edu)
Facebook: https://www.facebook.com/sfstatecareerservices
Twitter: https://twitter.com/sfsu_cald

Career Events

Looking for a job? Trying to find an internship? Interested in graduate school? The Office of Career Services & Leadership Development hosts the Part-Time Job, Graduate School, Fall Career, Spring Career Fairs and other career educational events that are open to all students.

Career Resources

The Office of Career Services & Leadership Development is dedicated to assisting SF State students with all aspects of their career development. Our goal is to prepare you to be a sought after candidate ready with the skills sets needed for securing a lucrative and fulfilling career.

How to begin your relationship with our office? First, sign up for our social media links to stay up-to-date with all of our office’s career development opportunities. Secondly, check out our calendar of events to find out when and where the next exciting workshop or event is taking place. Lastly, don’t wait until your senior year to come to our office. Stop by as a First-Year or Transfer student to begin working with our talented staff in developing your skill sets. Whether you need help with picking a career trajectory or need help developing your resume or finding a job, our staff is here to help. We know that you are embarking on an amazing adventure here at SF State filled with knowledge-learning, social networking, and experiencing everything that college has to offer. Let us be a part of that experience by helping you develop important job attaining skills you need to join the workforce.

Workshops

Career Services & Leadership Development offers a wide variety of workshops available to all current SF State students and alumni. To register for a workshop, please check http://careerservices.sfsu.edu/calendar and follow the link and login to your Orgsync account. Please
click on the “workshops” bar on the left to view the types of professional development workshops our office has to offer.

GatorJOBS
https://www.myinterface.com/sfsu/Account/LogOn?ReturnUrl=%2fsfsu%2fstudent

GatorJOBS provides employment and internship opportunities targeted to SF State students and alumni by employers. Students can search for on-campus work-study or student assistant positions as well as opportunities for both employment and internships with off-campus employers.

Leadership Development
President’s Leadership Fellows Program
President’s Leadership Fellows pursue mutual knowledge, practices, and goals focused on leadership skills and career readiness. The Fellows Program prepares students to become job-ready by providing essential tools, skills, and resources, and by introducing fellows to a network of connections and support.

Throughout the semester, fellows attend professional development workshops addressing topics encompassing communication skills, problem-solving, presentation skills, unconscious bias, leadership, personal branding, networking, interview techniques, cover letter and resume writing, and business etiquette.

Background
The Fellows Program began in Fall 2014 with the generous support of the Eustace-Kwan Family Foundation. The pilot program started in the College of Business with 25 students. The number of College of Business fellows increased to 50 in Spring 2015 and 100 students each in Fall 2015, Spring 2016, and Fall 2016. The success of the program resulted in additional support from the Eustace-Kwan Family Foundation in December 2016. With the full support of President Wong and campus leadership, the program has now expanded to accept applications from students in the College of Business, College of Ethnic Studies, College of Health and Social Sciences, College of Liberal and Creative Arts, and College of Science and Engineering.

Eligibility Requirements
Applicants must be currently enrolled juniors or seniors during the semester of participation. Announcements are made at the beginning of each semester requesting that students submit their applications to the program.

Class Schedule
The regular educational program of the university is offered continuously from 8:00 a.m. until 10:00 p.m., Monday through Friday. Classes are also offered on-line as well as on Saturdays only and various Saturdays and Sundays. The Class Schedule is available on-line every semester. It lists all classes offered for a particular semester. Links to other important information such as registration procedures, fee payment instructions, add/drop deadlines, finals schedule, etc. are available there as well. The on-line version of the schedule of classes on the web is found under Quick Links on the web at www.sfsu.edu (http://www.sfsu.edu).

Community Service Learning
Community Service Learning (CSL) is the combination of academic study with community service so that each is enhanced by the other.

Through a process of structured reflection, the service experience is integrated with the lessons of the classroom to enrich learning outcomes. Students enrolled in a course offering a community service learning opportunity balance their time between classroom instruction, service in the community, and reflection upon their service experience. Community service learning enhances academic learning by allowing students to make connections between their in-classroom education and its application to the field. CSL experiences help students to clarify their career goals and acquire work-related skills, develop a heightened sense of civic responsibility and awareness of moral and ethical issues, and provide them with a wide variety of work options with a goal of being value-added for the community they serve.

Opportunities to participate in CSL exist throughout the university curriculum. To assist students in identifying courses that may provide such unique experiences, certain courses in this Bulletin will be designated with “CSL may be available.” To determine if the community service learning experience is associated with the course in any given semester, interested students must contact the instructor or the Institute for Civic and Community Engagement (HSS 206). Additionally, the Class Schedule for each semester will indicate, by footnote, which section includes the CSL component.

The Community Service Learning program, a flagship of the Institute for Civic and Community Engagement (ICCE), is the campus unit responsible for coordinating community service learning activities. For more information, call (415) 338–6419 or visit us at icce.sfsu.edu (http://icce.sfsu.edu)

Counseling and Psychological Services
Counseling and Psychological Services
The Counseling and Psychological Services (http://psyservs.sfsu.edu) (psyservs.sfsu.edu (http://psyservs.sfsu.edu)) provides psychological counseling to students and consultation services to the university community. The center provides an opportunity to explore freely any personal problems or concerns. Concerns are as varied as the people themselves; they include problems involving relations with parents or peers, feelings of depression or anxiety, relationship conflict, concerns about academic progress or direction, and other issues. The professional counselor faculty of the Counseling and Psychological Services is comprised of licensed counselors, psychologists, and clinical social workers, representing a variety of cultures and ethnicities and trained to work with the university’s multicultural student body. Counseling services are available to undergraduate and graduate students and include personal and group counseling and psychotherapy, marital and couples counseling, consultation and outreach services, and referral services for students. Consultation services are also available to staff, faculty, and the university community on a variety of topics related to the emotional wellness of students. In keeping with accepted professional practice, counseling is strictly confidential, and no information is released without the student’s explicit written authorization. Counseling services are free of charge to all currently enrolled students. The Center is located in Student Services Building, Room 208. Appointments may be made by phone (415) 338–2208 or in person.

Health Promotion & Wellness
The mission of SF State University’s Health Promotion & Wellness (HP&W) unit is to achieve health equity and enhance academic, personal,
and professional success for all members of the SF State community. Using a socio-ecological perspective and practicing with cultural humility, we aim to positively shift culture and social norms around health and wellness and to increase students’ self-efficacy to make informed health decisions. Our team is made up of health educators who focus on areas including sexual health, mental health, alcohol and other drugs, sexual violence prevention, men’s health issues, nutrition, and overall health and wellness. We coordinate the campus peer health educator programs which support the development of health leaders who partner with us in addressing campus health needs. HP&W is located in the Cesar Chavez Student Center, M-113C. Online information and resources related to health and wellness can be found at wellness.sfsu.edu (http://wellness.sfsu.edu).

**Counseling Clinic**

The Counseling Clinic, a graduate training program, offers counseling services to students, including individual, couples, and group therapy. The interns are experienced, advanced second-year graduate students in the Counseling Department. The interns work under the close supervision of the counselor faculty at Counseling and Psychological Services. There are no fees. Interested parties may call the clinic at (415) 338-1024 or go to Burk Hall 117.

**Psychology Clinic**

The Psychology Clinic offers services to both students and the community-at-large. Many treatment modalities are provided, including individual, couple, child, and family therapy. The psychotherapy trainees are experienced, advanced graduate students working under the close supervision of the Clinical Psychology faculty. Clinic services are provided on a sliding fee scale; however, no one is turned away for lack of funds. Interested parties may call the clinic at (415) 338-2856 or go to the Ethnic Studies and Psychology building, room 240.

**SAFE Place**

The SAFE Place (Sexual Abuse Free Environment) is the campus resource center on sexual violence. It offers information, peer education, confidential crisis counseling, on-campus advocacy and referrals for survivors of sexual assault, sexual harassment, stalking and relationship violence. We also offer men’s programming to engage men in addressing sexual violence. These services are available for students seeking such resources for themselves or friends. The SAFE Place also assists staff, faculty, and administrators who are working with students in crisis or who themselves need such assistance. The University policy on sexual assault is published at titleix.sfsu.edu (http://titleix.sfsu.edu).

The SAFE Place is located in the Student Services Building, SSB 205; telephone: (415) 338-2819. For more information go to sfsu.edu/~safe_plc (http://www.sfsu.edu/~safe_plc).

**Disability Programs and Resource Center**

The Disability Programs and Resource Center (http://access.sfsu.edu) (DPRC) collaborates with SF State’s diverse community to ensure that all aspects of campus life—learning, working, and living—are universally accessible. The DPRC provides the University with resources, education, and direct services in order that people with disabilities may have a greater opportunity to achieve social justice and equity. Students with mobility, hearing, visual, communication, psychological, systemic (HIV/AIDS, environmental illness, etc.), and learning disabilities are encouraged to attend SF State. The DPRC is available to facilitate equal access to the classroom and to campus-related programs and activities. Eligible students with a verified temporary or permanent disability who are regularly enrolled or enrolled through the College of Extended Learning are provided with a full range of support services in order that they may define and achieve personal autonomy at SF State. The DPRC also provides assistance to eligible students in managing DPRC services, campus-wide access, attitudinal barriers, other campus resources, and disability civil rights.

**Support Services**

Prospective students are encouraged to contact the DPRC early in the admission process in order to receive assistance and information about services. Students with disabilities need to apply for admission to the University using the standard admissions process. If the student’s disability has prevented them from meeting any admission requirements and they believe they are an “otherwise qualified applicant,” they may be eligible to request alternative admissions assistance directly from the admissions office. On a case-by-case basis, the DPRC examines an applicant’s documentation and academic record to determine whether or not to support a recommendation for alternative admissions. The DPRC cannot offer alternative admissions assistance to prospective students who have not completed their admissions application and submitted all final transcripts. Students may also be eligible for one or more services, depending on the specific nature of their disabilities. Disability verification must be provided when registering with the DPRC. Specific services include the following:

- Academic Assistance
- Assistive Technology
- Alternate Media
- Deaf & Hard-of-Hearing Services
- Disability Management
- On-campus Shuttle Service
- Parking
- Priority Registration
- Test Accommodations

**Complaint/Grievance Procedures**

Every effort is put forth to ensure that students, faculty, and staff with disabilities at San Francisco State University receive the services and accommodations to which they are entitled under federal law. Generally, the campus community is sensitive to the need for accommodation. However, if an oversight to physical or programmatic access occurs at SF State, students and employees with disabilities have protection under Section 504 and the ADA. Students may file a complaint about University faculty, staff, administrators, or disability-related issues by following these procedures, which can also be found at: http://access.sfsu.edu/content/accessibility-oversights. (http://www.sfsu.edu/~dprc/grievance.html)

1. Discuss the problem with a DPRC Specialist. With permission of the student, the DPRC Specialist will contact the faculty and/or staff on campus in an attempt to work out a solution to the problem.
2. If the complaint is not satisfactorily resolved, or if the issue is with the DPRC Specialist, the student may meet with the DPRC Associate Director.
3. A grievance that is not resolved to the student’s satisfaction by the DPRC Associate Director may then be addressed to the DPRC Director.

4. When a grievance cannot be resolved informally as described above, students can pursue their claims under Section 504 of the Rehabilitation Act of 1973. To file a Section 504/ADA grievance, http://access.sfsu.edu/content/accessibility-oversights.

5. At any time students may file a complaint with the Office for Civil Rights (OCR). It is the DPRC’s hope, however, that students will give the campus the chance to address their problems in a timely manner.

Office for Civil Rights
U.S. Department of Education
50 United Nations Plaza
San Francisco, CA 94102
Phone: (415) 486–5555
Fax: (415) 486–5570
TTY: (877) 521–2172
Email: ocr.sanfrancisco@ed.gov

Complaints may be made in person, by telephone, or in writing. The DPRC prefers to meet with students to discuss concerns and issues. DPRC Specialists, the Associate Director, and the Director are available for appointments.

Further Information
For more information, contact Disability Programs and Resource Center:
Phone: (415) 338–2472
Video Phone: (415) 335–7210
Email: dprc@sfsu.edu
Website: http://access.sfsu.edu/
Persons interested in visiting the office should come to the Student Services Building, Room 110.
Educational Outreach Programs and Services

Educational Opportunity Program

The Educational Opportunity Program (EOP) at SF State University has improved access and retention of historically underserved (low income, first generation college) students by facilitating their matriculation into SF State and by providing a support system for their success. EOP is a comprehensive program designed to provide students with outreach, admissions, academic, and financial support. Students receive on-going advising, tutoring, mentoring, and workshops designed to increase retention and graduation rates.

California residents and eligible AB540 students who meet the income eligibility index and are first-generation college students can apply for EOP during the Fall admissions cycle.

EOP Summer Bridge

The Summer Bridge Program is an eight-week non-residential academic program that facilitates the transition from high school to the university. Participants are provided with an opportunity to adjust to the university environment and are introduced to an extensive educational support service network. The program allows participants to formulate a strong sense of belonging and connectedness to EOP and the university.

Summer Bridge participants will have the opportunity to complete the Early Start Program requirements during the eight-week Summer Bridge Program.

After completing the Summer Bridge Program, participants will have developed practical study skills to enhance academic success and a working knowledge of the resources, services, and structure of the university community.

Contact Information:
Phone: (415) 338-1085
Email: eop@sfsu.edu
Website: www.sfsu.edu/~eop (http://www.sfsu.edu/%7Eeop)

Guardian Scholars Program

The Guardian Scholars Program (GSP) is a comprehensive program of the Educational Opportunity Program (EOP), in collaboration with the School of Social Work, which serves former foster care youth who are pursuing their undergraduate degrees.

Through advocacy, support and empowerment, the Guardian Scholars Program creates a vibrant community to engage current and former foster youth in attaining college degrees, stable housing, and career path employment. The program is committed to graduating and empowering these young people to become self-supporting community leaders and to become competent professionals in their fields of interest.

GSP Contact Information:
Phone: (415) 405–0546
Email: gsp@sfsu.edu
Website: www.sfsu.edu/~eop/gsp (http://www.sfsu.edu/%7Eeop/gsp)

Student Support Services (SSS)

Student Support Services (SSS) TRiO is a comprehensive program of the Educational Opportunity Program (EOP), and funded in part by the U.S. Department of Education. SSS was created to increase the retention and graduation rates of 160 low-income, first-generation college students and students with disabilities by attending mandatory weekly group tutoring, bi-weekly academic and career advising, monthly study skills workshops, and career and graduate school fairs.

SSS Contact Information:
Phone: (415) 338-2312
Email: sss_trio@sfsu.edu
Website: www.sfsu.edu/~eop/sss_trio (http://www.sfsu.edu/%7Eeop/sss_trio)

Mesa Engineering Program (MEP)

Students can find a strong base of support while pursuing their degrees in SF State's School of Engineering. This support came about to assist historically under-represented but motivated students who chose to major in engineering. The School of Engineering introduced the MESA Engineering Program (http://www.engineering.sfsu.edu/mepr) (MEP) in 1985.

MEP recruits and retains students in SF State's engineering program and provides career planning and assistance services. Throughout their studies, the women and men in the program receive academic support, and personal and academic counseling to keep them on track toward their degrees. Success in engineering requires strong foundations in algebra, geometry, trigonometry, pre-calculus, chemistry, and physics. The MEP is here to assist.

MEP helps participating students graduate and enter the job market with the skills and confidence they need to succeed as engineers. Often alumni professionals augment the program by serving as primary role models and mentors for students who are beginning to plan their futures.

Students are encouraged to apply for admission to the MEP program. Space, resources, and certain types of assistance may be limited; however, all students are encouraged to contact the MEP for information. All applicants must satisfy the general requirements for admission to SF State.

Metro College Success Program

About the Metro College Success Program

The Metro College Success Program (Metro) (https://metro.sfsu.edu) uses targeted outreach to support first-generation, low-income, and historically underrepresented students in their success at San Francisco State University. Each Metro is a learning community with personalized in-class academic support, advising and tutoring.

Why Metro?

Adjusting to college can be challenging. Learning in a small, supportive community of students and faculty can help you thrive throughout your first two years. Metro's goal is to help you graduate in a timely manner and gain the skills you need to succeed in college and find a meaningful career.

177
A Learning Community for the First Two Years of College

The Metro College Success Program (Metro) was developed to support the next generation of leaders in urban communities. Each Metro academy is a ‘school within a school’ to give you an educational home in your first two years of college. Metro gives you personalized support for college success through in-class academic support and tutoring. At the core of Metro is a learning cohort made up of two linked courses each semester, pairing a general education course and a Metro course. In Metro, you will build a solid foundation for college success and meaningful work in a variety of careers.

Who Can Apply to Metro

First- and second-semester freshman who are able to attend full-time are eligible to submit a Metro application. High school seniors accepted to SF State are also eligible to apply. AB 540/undocumented students are encouraged to apply.

Find out more about Metro and how to apply here (http://metro.sfsu.edu). Students can also inquire about the program in HSS 301 or call (415) 338–3034.

Metro themes provide exposure to a variety of majors

Metro students are grouped in communities to prepare for a variety of majors and fields of interest. Metro has academies with the following fields of interest, with an academy in each college at SF State. Metro also welcomes students who have not yet declared a major or with any field of interest outside of those listed below.

- Business
- Child and Adolescent Development (CAD)
- Education
- Engineering
- Ethnic Studies
- Health
- Liberal and Creative Arts
- Science

Step to College

The Step to College (STC) Program is a collaborative effort among high schools and the Colleges of Education and Ethnic Studies. STC students are high school seniors who take courses in critical thinking skills, computer skills, and other college preparatory courses for which they receive up to 12 units of transferable credit. The courses are taught by SF State faculty who familiarize students with the format and structure of university courses. Students who participate in the program also receive help filling out university applications for admissions and financial aid, and when possible, scholarship support.

Step to College increases the high school graduation rates of disadvantaged minority students, helps them make a successful transition to higher education, and increases the college/university retention rates.

Student Outreach Services

Student Outreach Services serves as university liaison with other educational institutions and agencies, teachers, counselors, parents, and prospective students. It disseminates information concerning admissions, majors, programs, policies, and procedures. It conducts pre-admissions sessions during high school and community college visitations.

Among other responsibilities, the office participates in educational equity projects, facilitates the EOP application process, and coordinates the operation of the overall university outreach program.

Contact Us
Phone: (415) 338–2355
Email: outreach@sfsu.edu

Veterans Benefits

Veterans, dependents of veterans, reservists, and active duty military personnel planning to use their veterans educational benefits, or any student with questions concerning veterans benefits, should contact the Veterans Certification Desk – Phone: (415) 338-2336.

Fitness and Wellness Opportunities

Campus Recreation

All San Francisco State University Faculty and Staff are eligible to purchase a membership with the Campus Recreation Department. We provide a variety of fitness, health, and wellness opportunities throughout the year, enabling members to live more healthy, balanced and active lives. We strive to create positive and supportive exercise environments that empower positive lifestyle changes. The General Membership grants you access to all specified Campus Recreation fitness, wellness, and aquatics activities as well as regular use of all Campus Recreation Facilities. The Senior membership is available to any member sixty years of age or older and has the same privileges as the General Membership at a discounted rate. The Aquatic Membership grants you access to all activities and classes in the pool area only. If you have questions about the program, please contact the Campus Recreation Main Office by email at recsfsu@sfsu.edu or phone (415) 405–4328. Please also visit our website for more information sfsu.edu/~recsport (http://www.sfsu.edu/%7Erecsport).

For Fitness and Wellness Opportunities for Students, please visit Campus Recreation/Mashouf Wellness Center. (p. 168)

Village Fitness Center

The Village Fitness Center is an on-campus fitness center, professionally serving the faculty, staff, students and alumni of San Francisco State University. The Fitness Center offers convenient, high-quality facility with top-of-the-line equipment, knowledgeable fitness professionals and exclusive specialty classes in a spacious and stress-free environment.

Services include the health start program, personal/group training, group fitness classes and an online wellness portal. Hours include days, evenings and weekends. The Village Fitness Center is located at the Village at Centennial Square. For additional details and membership information call (415) 452–1010 or consult www.myvfc.com (http://www.myvfc.com)
Housing

The SF State University Housing program offers on-campus residential living to more than 5000 students, faculty and staff of San Francisco State University. Living within the campus community is the best way to experience our united passion for academic excellence, intellectual discovery, creative and critical inquiry, and educational equity.

First-Year Freshman Students

The Residence Halls, Mary Ward Hall and Mary Park Hall, are an ideal introduction to university life for first-year freshman students. Theme floors are available based on areas of interest. All of these double-occupancy rooms are furnished, with two community bathrooms per floor. Each bedroom is equipped with cable TV hookup and wired and wireless internet connections. On-site laundry is available in both buildings. A choice of both continuous and block meal plans is included in the fees.

The Towers at Centennial Square (TCS) offers double-occupancy Jr. Suites and one & two-bedroom apartments in double and triple occupancy. to first-year freshmen students who wish to live in designated Living Learning Communities. The Living Learning Communities bring together first-year freshman students who have similar academic interests. All units are fully furnished and include private bathrooms, cable TV hookup, and wired and wireless internet connections. All apartments include kitchenettes, living and dining room areas. The TCS has access to a 24-hour computer lab and on-site laundry. A choice of both continuous and block meal plans is included in the fees.

The Village at Centennial Square (VCS) offers two- and three-bedroom apartments in three buildings: A, B, and C. Double- and single-occupancy bedrooms are available. Each apartment is fully furnished and includes a kitchen, two bathrooms, cable TV hookup, landline telephone with voice mail, and both wired and wireless internet connections. A choice of both continuous and block meal plans is included in the fees.

Continuing Students, Transfer Students, and Graduate Students

University Park South (UPS), located across Holloway Avenue and Font Boulevard, is comprised of one, two, and three-bedroom townhomes. Single- and double-occupancy bedrooms are available in each shared apartment. Each apartment is fully furnished and includes a kitchen, bathroom, cable TV hookup, and both wired and wireless internet connections. Meal plans are not included in the cost but can be purchased through Residential Dining Services.

University Park North (UPN), located just north of campus and adjacent to the Stonestown Galleria, provides one, two and three-bedroom garden and tower apartments. Single- and double-occupancy bedrooms are available in each shared apartment. Furnished and unfurnished apartments include a kitchen, bathroom, cable TV hookup. Wired and wireless internet connections are only available in the furnished apartments. Meal plans are not included in the cost but can be purchased through Residential Dining Services.

Eligibility and Application Process

All SF State students enrolled in an academic program at the university and carrying a minimum of 12 units for undergraduates, nine units for graduate students, are eligible to live in the SF State University Housing Community.

The housing application process is separate from the university’s academic admission process. Housing applications are accepted on a first come, first-served basis. San Francisco State does not guarantee housing to newly admitted students. Due to high demand for housing spaces in San Francisco, the residence community fills quickly. We strongly advise students to complete a housing application before being admitted to the university.

Applications are available online at housing.sfsu.edu (http://housing.sfsu.edu).

Faculty and Staff Housing at University Park Apartments

Situated on 24 beautiful acres adjacent to the Stonestown Galleria shopping mall, University Park Apartments provides unfurnished apartments to SF State faculty and staff. The property boasts spectacular views of Lake Merced and the Pacific Ocean, and is only steps away from San Francisco State University’s main campus.

Applications for University Park Apartments are available by contacting the University Park Office.

Mailing address: 800 Font Blvd. / Physical address: 796 State Drive
San Francisco, CA 94132
Telephone (415) 405-4000
Email: univpark@sfsu.edu
Website: univpark.sfsu.edu (http://univpark.sfsu.edu)

Residential Dining Services

The SF State dining program is one of the best reasons to live on campus. Three dining facilities are available to students who have a residential meal plan. The main dining room, City Eats, offers eight formats of various menu selections. From grill station to toss made-to-order salad station to Asian stir-fried station to hot vegetarian and vegan entrees, residential dining services offer a wide depth of selections for all tastes and preferences. Café in the Park (in Mary Park Hall) offers smoothies, coffee drinks, and breakfast-style sandwiches and salads. The Bricks (in Mary Ward Hall) serves pizza, pasta, and other Italian cuisine. Voluntary meal plans are available for students, faculty, and staff who do not have a meal plan included in their housing fees. For more detailed information, please visit sfstate.sodexo/myway.com (http://sfstate.sodexo/myway.com).

Off-Campus Housing Resources

The University Housing website offers extensive links to rental and roommate listings, descriptions of neighborhoods, contact information for apartment complexes, home-stay opportunities, and housing information for people with disabilities. Students, staff, and faculty members can post and retrieve information at housing.sfsu.edu/content/campus-resources (http://housing.sfsu.edu/content/campus-resources).

Information Resources: Library, Academic Technology and Information Technology
Academic Technology

Academic Technology (http://at.sfsu.edu) (AT) supports and advances effective learning, teaching, scholarship, and community service with technology.

Academic Technology Services (http://at.sfsu.edu)

Learning Technologies

Academic Technology develops, supports, and optimizes the campus suite of online and classroom learning technologies, which include the iLearn (http://ilearn.sfsu.edu) learning management system, CourseStream (http://at.sfsu.edu/blog/coursestream) lecture capture, Zoom (https://sfsu.zoom.us) video conferencing, Labspace (http://at.sfsu.edu/blog/labspace) virtual software lab, iClickers (http://at.sfsu.edu/blog/iClickers), ePortfolio (http://eportfolio.sfsu.edu), Student Evaluations of Teaching Effectiveness (https://at.sfsu.edu/blog/student-evaluations-teaching-effectiveness-sete), the DIVA (https://diva.sfu.edu) media repository, and others.

Teaching & Learning

Faculty are invited to explore new teaching strategies and engage with colleagues by participating in a range of instructional design (https://at.sfsu.edu/blog/post/1399) consults and faculty development events (https://at.sfsu.edu/blog/events) in support of all course modalities, including face-to-face, technology-enhanced, hybrid, HyFlex and fully online. SF State’s ePortfolios initiative (http://eportfolios.sfsu.edu) and CSU sponsored Course Redesign with Technology (https://at.sfsu.edu/blog/post/1280), Quality Online Learning & Teaching (http://qolt.sfsu.edu), and Affordable Learning initiatives (http://affordablelearning.sfsu.edu) that promote student success are coordinated within Academic Technology.

Learning Space Design & Installation

Academic Technology designs, installs, and maintains the audiovisual classroom technologies (https://at.sfsu.edu/blog/post/1277) for more than 300 learning spaces (https://at.sfsu.edu/classroom/databases_tutorials) across campus, and manages the campus cablecast system that delivers media to all instructional classrooms. To keep up with an ever-changing technological landscape, Academic Technology is working its way across campus to install and upgrade reliable and user-friendly classroom interfaces and technologies to improve the faculty and student experience.

Media & Classroom Support

A full-service media & equipment checkout service, this area provides classroom equipment trainings and in-room troubleshooting for faculty teaching across the span of early morning to late evening class schedules. Loaner equipment includes laptops, projectors, speakers, cable connections, document cameras, and lots more. Our classroom database (http://at.sfsu.edu/classroom/databases_tutorials) lists the technology in each enhanced classroom and offers tutorials, too.

Videography

Academic Technology’s video production team helps faculty create polished and professional videos and photos for instructional and research purposes. In the studio, faculty can record audio, stage video shoots, or create innovative class presentations using our Learning Glass technology. Academic Technology supports institutional events such as Commencement (http://commencement.sfsu.edu) and Welcome Days (http://www.sfsu.edu/~welcome) and manages SF State’s official YouTube channel (https://www.youtube.com/user/sanfranciscostate), which showcases the high quality media produced by this team.

Desktop and IT Support

Faculty and staff in Academic Affairs administrative units, the College of Business, the College of Ethnic Studies, the College of Liberal and Creative Arts, and other select units, receive endpoint management, general IT support, and consultation.

User Support:

- iLearn Services: Faculty and students have 5 ways to get help: visit Lib 220, call (415) 405-5555, email ilearn@sfsu.edu, chat within every iLearn class, or SMS (510) 5-ILEARN for support with any of our online systems and technologies.
- Media & Classroom Support: Faculty can come to Lib 85, call (415) 338-1494, or email avhelp@sfsu.edu for classroom and equipment support. Students can also check out media at this location.
- Teaching & Learning (http://at.sfsu.edu/blog/teaching): Faculty can come to Lib 240, call (415) 405-5550, or email iTeach@sfsu.edu for group or one-on-one consultations on course design and teaching strategies. Can’t come to campus? Schedule a virtual consult via our easy-to-use Zoom video conferencing system.

Please visit our website (http://at.sfsu.edu) to learn how Academic Technology makes support happen!

Information Technology Services

Website: its.sfsu.edu (http://its.sfsu.edu)
Office: Administration 110
Phone: (415) 338–1420

Information Technology Services (ITS) advances the mission of SF State by providing reliable and secure enterprise-wide applications and infrastructure to support SF State’s long-standing commitments to teaching, learning, and social justice.

There are seven core areas of service within ITS:

Service Desk

A single point of contact for all issues, problems, or questions related to technology services and computing at SF State. One can seek assistance by submitting a Service Request Ticket, via email, or walk-in. The Service Desk is located in the Administration Building (ADM) 110 and is open between the hours of 8:00 a.m. to 5:00 p.m., Monday thru Friday.

Enterprise Applications

Implement and maintain enterprise business applications including Campus Solutions, Common Financial Systems (CFS), and Human Resources Management System (HRMS).

IT Physical Planning and Development

Provide Internet, video, voice, and technology support to the students, faculty, and staff who live in campus housing.

Web and Mobile

Design and develop campus websites and applications, support and maintain a robust Drupal-based content management platform, and develop the SF State Mobile App.
Network and Telecommunications
Manage the university’s network and telecommunications infrastructure, including wireless and wired services and the university’s phone system.

Systems
Provide the technology infrastructure that is key to running campus technology services, maintain the campus servers and data center, and support identity and access management.

Information Security
Oversees SF State’s efforts to protect its computing and information assets and to comply with information-related laws, regulations, and policies. The University Information Security Officer (ISO) provides information security training, evaluations, and best practice recommendations for the campus network and community. In addition to these services, the ISO also coordinates the university’s information security incident response. To learn more, please visit the Reporting an IT Security Incident or Vulnerability webpage.

The J. Paul Leonard Library
Website: library.sfsu.edu (http://www.library.sfsu.edu)

The mission of the J. Paul Leonard Library (JPLL) is to empower its university constituency with lifelong learning skills to identify, find, evaluate, use, and communicate information in promotion of excellence in scholarship, knowledge, and understanding. To fulfill its mission within the context of the missions of San Francisco State University (SF State) and the California State University (CSU) system, the library is committed to the following goals:

- Collaborating with departmental faculty in incorporating information competence into the curriculum to ensure that all SF State graduates are competent in locating, retrieving, organizing, critically evaluating, analyzing, synthesizing, and communicating information in a cohesive, logical, and ethical manner;
- Creating a learning environment that promotes study, research, and scholarly interaction in the context of a diverse campus community;
- Supporting excellent teaching and learning by providing equally for all university constituents on-site and remote access to relevant materials in support of the curriculum in any format, whether owned by or at JPLL or elsewhere;
- Encouraging through collections and access exploration of the broadest spectrum of viewpoints, constructs, cultures, beliefs, and methodologies;
- Evaluating, selecting, and teaching information sources and search strategies relevant to the SF State curriculum;
- Providing leadership to the University community in exploring and incorporating changing information technologies and formats;
- Supporting an understanding and appreciation of diversity through collections, programs, and instruction; and through recruitment and retention of diverse faculty and staff;
- Preserving cultural heritage through unique primary source materials;
- Promoting, supporting, and encouraging the transfer and sharing of information and knowledge within the broader community, and the sharing of intellectual and creative resources locally, regionally, and internationally.

The J. Paul Leonard Library collections number over four million items, including books, magazines and journals, electronic resources, government publications, microforms, media, computer software, and maps. Electronic resources include electronic full-text journals, e-books, streaming media, and databases used to locate journal articles and reference information. Information about these materials is accessible via the library’s online catalog and the Library’s website.

Computer stations on campus offer access to the Library’s online catalog, electronic resources and other information available on the Internet. Computers and quiet and group study areas are available to students during extended hours. Off-campus access to the library’s electronic resources is available to the campus community at any time using your SF State ID and password.

Americans with Disabilities Act (ADA) Compliance
The J. Paul Leonard Library building follows universal design principles.

Borrowing
Students may borrow from the library’s main collection and many of its specialized collections by presenting their OneCard (university identification card). Neither the card nor books borrowed on it may be transferred to another person. Loss of a student ID or change of address should be reported immediately to the library Book Checkout & Pickup desk and to the Registrar’s Office. Students from other CSU campuses may borrow books directly from the J. Paul Leonard Library if they present a current CSU identification card and register with JPLL to obtain a special borrower’s card.

Borrowing from Other Libraries
You may request items such as books, dissertations, and copies of journal articles not available at this library. Register for a Library PIN to use the LINK+ service; register for ILLiad for all other requests.

Collections
- Books: print and electronic books are accessible by using the Library catalog. Printed books are located in open shelving on the 3rd and 4th floors by call number, and in the Library Retrieval System (LRS). Request LRS titles online via the library catalog and pick up at the Book Checkout & Pickup desk on the 1st floor. Electronic books (eBooks) are linked from the book’s record in the Library catalog.
- Government Publications: the Library is a selective government depository housing federal, state, international, and local government publications. Most government publications are included in the Library catalog. For electronic sources, check the Library website under Find Government Information.
- Magazines & Journals: most of the Library’s collection of magazines and journals are available electronically using the Library website. Printed magazines and journals published within the past two years are located on open shelves on the 3rd floor. Bound journals are available from the Library Retrieval System. Ask at Research Assistance for help in identifying how to locate a magazine or journal article.

Computers & Printing
- Study Commons: Large study area on the ground floor with Mac and Windows PCs, color and black & white printing, group study rooms, and quiet study room. Open extended hours during fall and spring
semesters. Available for use by SF State faculty, students and staff only.

- Research Commons: Large study area on the first floor with Mac and Windows PCs, color and black & white printing, laptop checkout, group study rooms, and quiet study room. Open extended hours during fall and spring semesters, and winter and summer sessions.
- Digital Media Studio and Maker Space: high-end computer lab on the second floor supporting digital media creation with specialized hardware and software, 3D printers, a 3D scanner, electronics tinkering kits from LittleBits and Arduino, scanners for large documents and images and a large-format poster printer.

**Friends of the J. Paul Leonard Library**
Established in 1980 to promote the love of books, strengthen relationships between the University and the community, and to raise funds beyond those available in the regular budget for library services. Membership is open to SF State students, faculty, staff, and community adults. Privileges include borrowing books and use of many library services. The Friends maintain a Booksale Room and accept used books and other donations.

**Research Assistance**
The Library provides research assistance in person, by phone, email, and via instant/text message. At the Information and Research Assistance service points, library faculty and staff offer advice on library research and assistance using library resources. Appointments may be made with subject specialists for research advice on term papers and similar projects. The Library also offers research workshops for classes at the request of instructors, and online research guides and short video tutorials for those who prefer to explore research help on their own.

**Media & Classroom Support**
Provides access to the University's media collection such as videotapes, compact discs, audiotapes, and computer software.

**Media Viewing & Listening**
View or listen to your own media or items from our collections. Listen to LPs, CDs, and tapes on the 1st Floor near the Book Checkout & Pickup Desk. Watch DVDs, BluRay, and VHS tapes on the 2nd Floor in the group study area.

**Reserve Materials**
The Reserve collection provides materials in high demand for assigned readings in courses. Articles and other short readings are available through links on course pages in Ilearn. Print, media, and other materials on reserve are available at the Library’s Book Checkout & Pickup desk.

**Special Collections & Archives**

**University Archives & Historic Collections**
University Archives & Historic Collections houses archival material about the history of San Francisco State University, the Archer Collection of Historic Children’s Books, the Willie L. Brown, Jr. Archive, the Paul K. Longmore Papers, and other rare or unusual materials.

**San Francisco Bay Area Television Archive**
The Bay Area Television Archive’s local news film and documentary collections dramatize San Francisco’s social revolutions throughout the 1960s and 70s and much of the material can be viewed online from the Library’s website.

**The Frank V. de Bellis Collection**
The Frank V. de Bellis Collection of the California State University is a library-museum representing the civilization of ancient and modern Italy, particularly in the areas of history, literature, fine arts, and music. Holdings include rare books, music scores, archival sound recordings, manuscripts, periodicals, microfilms, art prints, artifacts, and coins.

**The Labor Archives and Research Center**
The Labor Archives and Research Center collects, organizes, preserves, and makes accessible the records documenting the lives of working men and women and their labor organizations in the Bay Area.

**The Sutro Library**
The Sutro Library, a branch of the California State Library, is open to all citizens of California and includes over 140,000 volumes and 40,000 historical pamphlets. Among its collection strengths are natural history, Mexicana, Shakespeareana, records of the Pacific voyages of discovery, the history of printing, genealogy, and local history.

More information about the library, including descriptions of services and policies, is available via the library website: library.sfsu.edu (http://library.sfsu.edu).

**Military Studies**
San Francisco State students may enroll in military studies (ROTC) classes. SF State students who are approved to attend ROTC courses held at University of San Francisco (USF) and University of California, Berkeley (UCB) do so via Consortium Enrollment (http://bulletin.sfsu.edu/resources/special-enrollment-programs) and UCB Cross Registration Programs (http://bulletin.sfsu.edu/resources/special-enrollment-programs). For specific information contact:

Military Science Department (Army ROTC)
University of San Francisco 2130 Fulton Street
Underhill Building, Room 21
San Francisco, CA 94117–1080
(415) 422–5628
usfca.edu/rotc (http://www.usfca.edu/rotc)
Email: jpcorreia@usfca.edu

Department of Aerospace Studies (Air Force ROTC)
Hearst Gymnasium, Room 176
University of California, Berkeley
Berkeley, CA 94720–3610
(510) 642–3957
airforcerotc.berkeley.edu (http://airforcerotc.berkeley.edu)
Email: afrotc@military.berkeley.edu

The U.S. Navy does not currently have a cross-town agreement with SF State. However, students may elect to take Naval Science classes through UC extension and will earn extra credit, which may or may not be transferable to SF State. For more information, contact the office below.

Department of Naval Science (Navy ROTC)
Hearst Gymnasium, Room 152
University of California, Berkeley
Berkeley, CA 94720–3640
(510) 643–6345
Email: nrotc@military.berkeley.edu

Office of International Programs

The Office of International Programs (OIP) is the principal office on campus designated to respond to the diverse needs of the campus community with respect to international education. Prospective and matriculated international students, SF State students wishing to study abroad, visiting scholars and students, and international alumni are all served by this office.

OIP has a professional, multi-lingual staff that provide a range of services and programs to assist students, faculty, and staff in realizing their respective goals in international education. The staff is well informed about community programs, resources, cross-cultural issues, student/scholar regulations, and are dedicated to assisting international students and scholars in making their stay at SF State as rewarding as possible. OIP is open year-round and welcomes members of the campus community to visit our office or our home page on the web (oip.sfsu.edu). The office maintains an extensive Study Abroad Resource Center with information on work and study opportunities overseas. Appointments may be made to speak with any of our advising staff.

For more information, contact OIP
Phone: (415) 338-1293
Fax: (415) 338-6234
Email (general information): oip@sfsu.edu
Email (study abroad information): studyabroad@oip.sfsu.edu

International Student Outreach

OIP oversees the university's international student recruitment, outreach services, and activities. The office is responsible for responding to the thousands of inquiries received from prospective international students each year. Pre-admission, transfer advising, and admission follow-ups are provided by OIP's international student advisers. The advisers work closely with international student counselors and transfer centers at California's community colleges/high schools and provide on-site advising and workshops to transferring international students. OIP serves as a liaison with U.S. advising centers overseas, Fulbright Commission offices, foreign universities, and educational organizations concerned with providing academic advising and placement services to prospective international students worldwide.

International Student Services

OIP also assists the university's many F-1 and J-1 visa international students and scholars in adjusting to life at SFSU, the San Francisco Bay Area, and the United States. At the beginning of each semester, OIP conducts extensive orientation programs for new international students and scholars. In addition, the office provides advice concerning immigration and visa matters, cultural adjustment, academic matters, personal and financial counseling, and employment regulations. Furthermore, OIP conducts various workshops during the academic year on topics of special interest to international students and scholars and organizes a variety of social, cultural, educational, and recreational activities designed to help familiarize international students and scholars with life in the U.S.

Study Abroad and International Exchange Programs

OIP provides information and advisement on the two officially sanctioned study abroad programs: The California State University International Programs (IP) and the bilateral exchange programs between SF State and selected foreign universities. The CSU-IP program is affiliated with more than 70 recognized universities and institutions of higher education in nineteen countries: Australia, Canada, Chile, China, Denmark, France, Germany, Ghana, Israel, Italy, Japan, Korea, Mexico, New Zealand, South Africa, Spain, Sweden, Taiwan, and the United Kingdom (see California State University International Programs (p. 189) section of this Bulletin). SF State has established bilateral exchange agreements with universities in Argentina, Australia, Brazil, Canada, China, Czech Republic, Denmark, France, Germany, Hong Kong, Hungary, Ireland, Japan, Korea, the Netherlands, the Philippines, Spain, Sweden, Taiwan, and the United Kingdom (including Wales) (see San Francisco State University Bilateral Programs (p. 189) section of this Bulletin). These programs allow students from any academic major to make progress towards their SF State degree, earning CSU/SF State resident credits, while enhancing their academic program with an overseas experience. Financial aid applies, and, since participating students in either program are still enrolled at SF State, they pay only their regular SF State tuition and fees. Information workshops are offered throughout each semester. In addition, OIP maintains a Study Abroad Resource Center which contains information on other independent, non-CSU administered study abroad programs, and materials covering a variety of study, travel, and work abroad related topics such as financial resources, teaching and internships, gay and lesbian resources, resources for students with disabilities, women's concerns, students of color issues, volunteer programs, safety and health issues, transportation, and home-stays and housing information, to name a few. OIP also sponsors an annual Study/Work/Travel Abroad Fair every fall semester, and serves as the advisory office for a variety of scholarships which relate directly to the certified CSU and SF State study abroad programs.

Note: For SF State students wishing to participate in non-certified, "outside," or vendor, study abroad programs, standard evaluation procedure for transfer credit applies. Nonresident credit can be awarded, and pre-approval of transfer credits cannot be guaranteed prior to actual transcript evaluation. Students are recommended to consult OIP for more information, and advisement of applicable conditions, before participation in non-certified study abroad programs.

Dedicated to supporting international exchange, OIP jointly facilitates the international scholarly movement of faculty to and from SF State. OIP assists in bringing visiting scholars to the campus through a variety of services, including orientation and advising on immigration and personal matters after their arrival. OIP is the only office authorized to issue immigration documentation to enable these scholars to come to SF State on J-1 visas. OIP also assists SF State faculty members who seek to engage in scholarly activities overseas, such as the Fulbright Scholar program, and advises departments who wish to establish bilateral exchange programs designed for the needs of students in a certain academic discipline.

International Track

Students may enhance their course of study by participating in the Study Abroad programs through the International Track option in many departments. International Track students follow a particular course of study in which the participating department integrates overseas courses
from the host university with the course requirements in the major at SF State. All official SF State Study Abroad students earn resident credit, and may use SF State financial aid while participating in the program. For more information and a list of participating International Track Departments please visit www.sfsu.edu/~studyabr (http://www.sfsu.edu/~studyabr)

**Immigration Requirements for Licensure**

For immigration requirements for licensure see Regulations and Procedures - Additional (p. 162).

**Literary, Performing, Visual, and Media Arts**

San Francisco State University offers unparalleled opportunities for students to experience and participate in the literary, performing, visual and media arts as part of the curriculum. Through curricular involvement, students gain practical experience in all avenues of the arts by producing and starring in events open to the general public.

Each semester the College of Liberal & Creative Arts features an innovative program of events and exhibitions showcasing the immense talent among students and faculty in the literary, visual, media and performing arts. Presentations include recitals, concerts, plays and operas, poetry readings, dance productions, exhibitions, film and video screenings, symposia, lectures, workshops, master classes and many collaborations with professionals.

Student-produced radio and television programs are broadcast on Bay Area cable and online from the college’s studios. Student work in Art, Film, and Design is on exhibit throughout the year. The Fine Arts Gallery showcases two professional and two student exhibitions each year, the former often featuring rarely seen work by a diverse range of well-known artists. Students in the Exhibition Design class are responsible for installing and promoting all Fine Arts Gallery shows. Theatre Arts produces two mainstage plays each semester, in addition to smaller productions on a thrust stage and weekly lunchtime productions of the Brown Bag Theatre Company, performed in a black-box space.

Regularly scheduled music recitals and concerts feature students and world-class guest artists, some made possible, in part, through a gift provided by the May Treat Morrison Chamber Music Foundation. The Poetry Center, housed in the Creative Writing Department, hosts readings and workshops with renowned writers and translators throughout the year.

The College of Liberal & Creative Arts serves as the most diverse and vital catalyst for artistic creativity and career success in Northern California. The majority of the public events come from eight academic programs: Art, Broadcast and Electronic Communication Arts, Cinema, Creative Writing, Design, Music, and Theatre Arts and Dance. Special facilities include five theatres and concert halls, two art galleries, radio and television studios, dance studios, computer laboratories, an electronic music laboratory, a film shooting stage, an automatic dialog replacement studio, Foley and other post-production areas.

Most events are admission-free. For ticketed events, discounts for students, senior citizens, faculty, and staff are available. For more information, visit the Creative State website (http://creativestate.sfsu.edu) or call the Box Office at (415) 338-2467.
Research and Special Learning Facilities

The Global Museum

Website: http://museum.sfsu.edu/content/global-museum

Established in 2014, the Global Museum is a research unit of the School of Art in the College of Liberal and Creative Arts and serves as an academic resource and exhibition hub for the University and surrounding community. Our new facility opens in the Fine Arts Building in 2017. Our permanent collection includes cultural and ethnographic artifacts from Africa, the Americas, Asia, Egypt, and Oceania, spanning a time period covering the ancient world to the 20th century.

The mission of the Global Museum is to serve as a responsible steward of cultural heritage and to be a place of scholarship, community, and engagement. We want to create experiences that foster lifelong learning and collaboration with and among diverse communities, and that encourage reflection about global society and our common humanity. Museum activities are closely integrated with the major and minor programs in Museum Studies, providing hands-on, real-world experiences with authentic objects, and opportunities in community-service based learning in the following courses:

- M S 201 Introduction to the History and Development of Museums
- M S 202 Introduction to Museum Exhibits
- M S 310 Introduction to Museum Education Methods and Community Engagement
- M S 681 Museum Studies Lab
- M S 710 Museum Education and School Outreach
- M S 720 Museum Curatorship and Collecting
- M S 730 Museum Exhibition Planning and Design
- M S 740 Museum Conservation and Restoration
- M S 760 Preservation of Natural History and Cultural Collections
- M S 810 Museums in the Digital Age
- M S 850 Museum Volunteer Management and Membership
- M S 888 Project Management for Museums

Visiting scholars, Bay Area students, and faculty may also use our collection for study and research. For more information, visit the Global Museum’s webpage: http://museum.sfsu.edu/content/global-museum.

American Language Institute

The American Language Institute (ALI) is SF State’s intensive English program for non-matriculated students. The majority of ALI students are international students preparing to enter San Francisco State or another American college or university. ALI provides a full-time, academically focused curriculum in English as a Second Language that gives students both the language and strategies necessary for academic success in the United States. There are five levels of instruction ranging from low intermediate to advanced. Students must enroll for a full session (12 weeks in the fall and spring, 10 weeks in the summer), which involves 22 hours per week of classroom instruction. Students are expected to regularly attend classes and maintain good academic standing to continue in the program. Part-time study is not permitted. All applicants must be graduates of a recognized high school or secondary school.

Located on the main campus, the ALI is a program in SF State’s College of Extended Learning.

In addition to language instruction, the ALI offers a variety of student services, including assistance with cultural adjustment, immigration advice, and a regular program of social and cultural activities. The ALI also provides special benefits to its students who wish to attend undergraduate programs at SF State: ALI students may meet the university’s English proficiency requirement through successful completion of particular levels of the ALI program and may also take advantage of special application deadlines.

Furthermore, the ALI serves as a training institute for selected students in the SF State English Department’s Master of Arts in English: Concentration in Teaching English to Speakers of Other Languages (TESOL). Following an intense semester of training, those graduate students become instructors in the ALI under the supervision of the full-time, permanent ALI staff.

For further information about ALI programs and future session dates, please contact the American Language Institute.

The office is located in HUM 101
Phone (415) 338-1438
Email: ali@sfsu.edu
Website: ali.sfsu.edu (http://ali.sfsu.edu)

The Geography & Environment Map Library

The Geography Map Library offers the University and the San Francisco community a unique and varied collection of maps. The Map Library aids faculty and students in the selection of maps that best fit their needs in the classroom and research.

The collection maintained by the Map Library includes the University’s Wall Map Collection, a regional flat map collection with world coverage, the AMS Series for Southeast Asia and a diverse collection of maps of California and the San Francisco Bay Region.

The Map Library also functions as an Official USGS Map Depository for the Western States Region. The Map Library houses a collection of nearly three thousand of the latest USGS Topographic Quadrangles for California, Oregon, Washington, Idaho, Nevada, Utah, Arizona, New Mexico, Hawaii, and Alaska. These collections are open to the public during the regular business hours of the Map Library, located in HSS 289.
Centers and Institutes in the College of Business

Center for Ethical & Sustainable Business
The Center for Ethical and Sustainable Business (CESB) was launched in the College of Business in 2011, with founding faculty members seeking to integrate ethics, corporate social responsibility, and environmental sustainability beyond the classroom for undergraduate and graduate business students, faculty, and the Bay Area business community.

Vision
The vision for the Center for Ethical and Sustainable Business is to be the Bay Area epicenter for integrating ethical, environmental and social sustainability business practices through engagement between San Francisco State University’s College of Business students and Bay Area businesses.

The University’s longstanding commitment to educate students about equity and social justice aligns CESB’s vision towards its mission to hone best practices in business integrity, social impact, and environmental sustainability through business leader presence on campus, business funding support for students’ CESB vision-related projects, and developing CESB learning and research communities for students and faculty.

Educational Programs
- MBA Emphasis in Ethics and Compliance (https://cob.sfsu.edu/graduate-programs/ethics-compliance-emphasis)
- MBA Concentration in Sustainable Business (https://cob.sfsu.edu/graduate-programs/sustainable-business-emphasis)
- Business Certificate in Ethics & Compliance (https://cob.sfsu.edu/graduate-programs/ethics-compliance-certificate)

The Marian Wright Edelman Institute for the Study of Children, Youth and Families
The Marian Wright Edelman Institute for the Study of Children, Youth, and Families at San Francisco State University brings together faculty, community members, and students to address the ever-changing needs of children, youth, and families. The institute serves as a powerful tool for outreach, advocacy, and research. The mission of the institute is:

- To promote collaboration among faculty, and to create public outreach, advocacy, and other partnerships between SF State and the community.
- To promote and facilitate community outreach and partnerships with individuals, agencies, and institutions to improve the quality of life for children, youth, and families through education, social services, and health delivery projects.
- To foster research and scholarly work.
- The University’s long, productive history of attracting grants and contracts for the study of children, youth, and families has included funding from government agencies and private foundations. Through innovative partnerships between the community and the University, and by bringing together SF State colleges and departments, the institute enhances San Francisco State’s prospects for continuing creative research and civic engagement.

For further information about the Institute, contact the Institute office at (415) 405–3925. Location: HSS 258

Center for Integration and Improvement of Journalism
Founded at San Francisco State University in 1990 by former Department of Journalism Chair Betty Medsger, the Center for Integration and Improvement of Journalism believes that accurate and responsible journalism reflects the changing demographics of the society it serves. The center develops programs and conducts research aimed at recruiting, retaining, and revitalizing journalists and journalism education. It seeks to make journalism more inclusive from the classroom to the newsroom.

CIJ does this by connecting youth, University students, and professional journalists in efforts to reach common goals. CIJ works with local community colleges to increase transfer rates and collaborates with the Journalism Association of Community Colleges to increase interest in journalism careers. In addition to annual summer journalism workshops for Bay Area high school students, school visits, and high school fairs, CIJ also coordinates a Coaching Program, in which a broad network of professional journalists work with the department’s students on a weekly basis. CIJ coordinates a job fair and a number of other career services for SF State’s and other college and University journalism students.

CIJ’s major goals include:
- Increase ethnic diversity in the nation’s newsroom and in journalism education programs by developing innovative recruiting, training, and retention programs in the department.
- Improve students’ journalism skills and multicultural sensitivity so that they will excel in the multicultural newsroom.
- Conduct research about diversity and the news to benefit journalism students, educators, professionals, and the community.
- Create innovative programs that will reinforce existing high school journalism programs or replace those that have been lost; address declining writing skills, meet the special needs of bilingual/bicultural students and other under-served or under-represented groups.

CIJ is the nation’s most recognized University-level institute that addresses the complex issues confronting the news media in serving, covering, and reflecting an increasingly diverse American society. Expanded research on media coverage of ethnic communities, new efforts to track students’ progress and retention, plans to strengthen the Bay Area’s community and ethnic press, and new training for high school journalism advisers rounds out its sweeping approach to achieving diversity in news media.

CIJ is funded entirely by SF State and private grants, primarily from the Ethics and Excellence in Journalism Foundation, the Ford Foundation, the McCormick Foundation, the Miranda Lux Foundation and the New York Times Company Foundation. CIJ plays a critical role at this point in U.S. history. The twenty-first century compels news organizations to understand issues of immigration; demographic and lifestyle trends; and social, political, and economic pressures. These issues have combined to make diversity an overriding concern for the news media in everything from the integration of the staffs of newsrooms to the integration of the content of news pages and broadcasts. CIJ hopes to help the news
media fulfill its important responsibilities as gatekeepers for information, ideas, and voices that help shape public opinion and policy.

**Center for Modern Greek Studies**

The purpose of the Center for Modern Greek Studies is to promote the study of Modern Greek language, literature, and history in relation to the ancient Greek and Byzantine civilizations. The Center coordinates courses offered in Modern Greek Studies as well as cross-listings with the Departments of Anthropology, Classics, Comparative and World Literature, Creative Writing, English, and History, and offers an interdisciplinary minor in Modern Greek Studies.

Courses presently available include:

- **MGS 150 Modern Greek I**
- **MGS 151 Modern Greek II**
- **MGS/ANTH 316 Contemporary Culture of Greece**
- **MGS 365 Modern Greek III**
- **MGS 397/Greek American Literature**
- **ENG 398**
- **MGS 470 Modern Greek IV**
- **MGS/C W 497 Modern Greek Literature**
- **MGS 555 Introduction to Modern Greek Literary Texts**

The Center also presents an array of lectures, concerts, film festivals, and other events focusing on contemporary Greece and the Greek American experience. In connection with the Center, an endowed chair in Modern Greek Studies has been established, the Nikos Kazantzakis Chair, to provide support for curricular development and cultural programming. The Kazantzakis Chair is the only endowed professorship of Modern Greek literature in the California State University system and one of only several such academic chairs in the United States.

For information about the Center for Modern Greek Studies, please contact David Leitao, Interim Director

**HUM 377**

(415) 338–2068
Email: modgreek@sfsu.edu
Website: moderngreekstudies.sfsu.edu (http://moderngreekstudies.sfsu.edu).

**Moss Landing Marine Laboratories**

Moss Landing Marine Laboratories (MLML) hosts and administers an interdisciplinary Master of Science Degree in Marine Science for seven California State University (CSU) campuses: Fresno, East Bay, Sacramento, San Francisco, San Jose, Monterey Bay and Stanislaus. Although primarily a graduate program, MLML offers a range of courses for undergraduates as well. MLML courses are intended for students majoring in either the biological or physical sciences whose objectives include further graduate study, teaching the sciences, or conducting research in the marine sciences.

Juniors, seniors, and graduate students may take courses at MLML and receive credit toward their degrees at San Francisco State University. Please note that students must reserve space at MLML prior to registering at San Francisco State University; registration and course confirmation at the University alone does not assure the student of space at the laboratories. San Francisco State University students at Moss Landing Marine Laboratories must continue to follow University enrollment regulations and use San Francisco State University Marine Science course numbers.

MLML offers full-time course work in biological, chemical, physical, and geological oceanography, marine invertebrate zoology, marine birds and mammals, reptiles, ichthyology, physiology, and benthic ecology.

MLML maintains a full research library, a scientific diving program, a fleet of research vessels, and nearly 100,000 square feet of lab, office and classroom space. Internationally recognized affiliated researchers complement the interests of MLML faculty. More information can be found at www.mlml.calstate.edu (https://www.mlml.calstate.edu).

For additional information, please contact either the chair of the Biology Department or the chair of the Department of Earth & Climate Sciences at San Francisco State University or the Graduate Program Assistant at Moss Landing Marine Laboratories.

**The Poetry Center and American Poetry Archives**

The Poetry Center was founded in 1954 by a small donation from W. H. Auden (he surrendered the honorarium paid to him when he read his poetry to celebrate the opening of the new—and current—San Francisco State University campus). Today, The Poetry Center at SF State is one of the most long-lived and nationally renowned literary arts institutions in the United States. Having celebrated its 50th anniversary in 2004, the Poetry Center initiated its pioneering reading series under the direction of Ruth Witt-Diamant, with advice and encouragement from local poets Kenneth Rexroth, Robert Duncan, and Madeline Gleason among others. Since then, The Poetry Center has presented over one hundred continuous seasons of outstanding contemporary poets and writers, reading from their works. With its companion project, The American Poetry Archives, the Center has amassed nearly 3,000 original audio and video recordings of poets and writers reading from their works, representing an irreplaceable collective record of the past half-century of American literary accomplishment. The Poetry Center presents an extensive reading series, on and off campus, during Spring and Fall semesters. It houses a reading library (HUM 512), which doubles as performance space and Creative Writing student lounge. The Poetry Center is open to visitors, Monday through Thursday, and its recordings are available for sale, and for loan to SF State students, faculty, and staff. Offices located in HUM 511, phone (415) 338–2227. For archives recordings, please leave a message at (415) 338–1056. Website at poetry.sfsu.edu (http://poetry.sfsu.edu).

**Romberg Tiburon Center**

The Romberg Tiburon Center for Environmental Studies (RTC) is located on San Francisco Bay a few miles outside of the town of Tiburon in Marin County, approximately 25 miles north of the main campus. The 34-acre site is also the location of the Bay Conference Center which is operated by RTC.

The Romberg Tiburon Center was founded in 1978 to serve as a multidisciplinary instructional and research facility for the study of the natural environment of the San Francisco Bay and the central California coast. RTC provides a unique opportunity for faculty, students, and researchers of diverse disciplines to work together on regional and global environmental issues in areas of marine and estuarine science.
The Bay Conference Center (BCC) opened in 1987. Overlooking San Francisco Bay and the surrounding hills, it contains four meeting rooms, including a main room with seating for 140 people. University groups, government agencies, non-profit organizations, and private industry utilize the Bay Conference Center for meetings, educational programs, and conferences. The Ohrensall Guest Center opened in 2001 and provides short-term overnight lodging in a beautiful renovated Victorian-era home. Seven bedrooms are available for use by University guests, affiliates, and Bay Conference centerees.

Several University departments offer courses at the RTC each semester, including the summer term. Courses offered at RTC encompass the areas of benthic ecology, biological oceanography, limnology, marine conservation biology, marine microbial ecology, molecular tools in marine biology, fisheries biology, food web structures, physical oceanography, remote sensing and GIS, and restoration and wetlands ecology, in addition to others. Courses are offered at both the graduate and undergraduate levels, and opportunities exist for graduate research projects. Students should check the Class Schedule or call the center for information on course offerings.

San Francisco Bay National Estuarine Research Reserve (NERR) is a partnership among National Oceanic and Atmospheric Administration (NOAA), San Francisco State University, California State Parks, Solano Land Trust and the Bay Conservation and Development Commission. Its headquarter is also located in RTC. The San Francisco Bay NERR serves as a living laboratory for on-site staff, visiting scientists and graduate students. Since the inception of the nationwide NERR system, a main goal of the program has been to ensure a stable environment for research through long-term protection of reserve system resources. The reserves serve as platforms for long-term research and monitoring, as well as reference sites for comparative studies.

For information on RTC or BCC, see http://rtc.sfsu.edu or contact:

Administrative Assistant
Romberg Tiburon Center
3152 Paradise Drive
Tiburon, CA 94920
(415) 338-606
For information on SF Bay NERR, see http://www.sfbaynerr.org/ or contact the Administrative Coordinator (415) 338-3759.

**Sierra Nevada Field Campus**

The Sierra Nevada Field Campus provides a mountain forest setting for instruction and research in the environmental sciences and other creative disciplines. The field station is located adjacent to State Highway 49 on the North Fork of the Yuba River at an elevation of 1,675 meters. Facilities include two cabins and a dining hall on nine mostly forested acres within the Tahoe National Forest. Presently the facility supports a summer and weekend course and research program which utilizes a variety of vegetation types, landforms and aquatic habitats near the field station. Other unique sites occur within two hours drive, including Sierra Buttes, Sierra Valley, Gold Lakes Country, Mt. Lassen, Lake Tahoe, Pyramid Lake, Eagle Lake, and Mono Lake.

For information about courses, scheduling programs, and accommodations, please see www.sfsu.edu/~sierra/ (http://www.sfsu.edu/~7esierra) or write to:

Director
Sierra Nevada Field Campus

College of Science and Engineering
San Francisco State University
San Francisco, CA 94132
or
Sierra Nevada Field Campus
Star Route, Slateley, CA 96124.

**Special Enrollment Programs**

**The San Francisco Consortium**

The University is a member of the San Francisco Consortium; other member institutions are California College of Podiatric Medicine, City College of San Francisco, Cogswell College of Engineering, Golden Gate University, Hastings College of the Law, The University of San Francisco, and the University of California, San Francisco.

The Consortium program is only available during the regular sessions of the academic year and specifically excludes summer session, winter session, and extension. In addition, any regularly enrolled, full-time, matriculated student of a San Francisco Consortium member institution, in good standing, may register for credit in courses offered by other member institutions with the consent of both the home and host institution’s faculty advisor and registrar, on a space available basis.

Through the functions of the Consortium, a variety of increased and enhanced educational opportunities may be made available to full-time students, in good standing, of the member institutions. In addition, numerous cooperative projects directed toward various aspects of urban development and special programs in higher education may involve faculty of two or more member institutions. San Francisco State University students who have special needs or interests, which may be served through connections with one of the other Consortium institutions, should contact the

Registrar’s Office – One Stop Student Services Center
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132

International students must verify full-time status with the Office of International Programs.

**Cross Registration Program: University of California, Berkeley**

The Cross Registration Program is only available during the regular sessions of the academic year and specifically excludes summer sessions, winter session, and extension. In addition,

- Cross registration is limited to one course per quarter/semester at UC, Berkeley only.
- Cross registration students must do late registration at the host institution.
- If the student drops the course prior to completion, it is the student’s responsibility to notify both the host and home registrars and to fill out appropriate forms to avoid the recording of a “failure.”
- Grades are reported by the host institution directly to the Registrar’s Office of the home institution. It is the student’s responsibility to make sure the credits have been incorporated into the official records of the home institution.
• In some cases, the host institution may charge tuition.

Cross Registration Conditions
The following conditions must be met before a student may register for credit at another member institution and have the credit accepted toward fulfilling graduation requirements.

• The student is matriculated, in good standing, and currently enrolled in a full-time degree program.
• The desired course is not offered at the home institution.
• The student has the agreement of the faculty advisor or department chair, has satisfied any prerequisites, and is acceptable to the host institution, presuming space is available.

Cross Registration Procedures
• Cross Registration Application Forms are available at each Registrar’s Office.
• Obtain the signature of the faculty advisor or department chair and the Registrar on the completed form.
• According to the time schedule for registration at the host institution, hand carry the Cross Registration Application form to the host campus’ Registrar’s Office for signature. The Registrar keeps a host copy.
• Pay any tuition, laboratory, or special fees charged by the host institution.
• Return the original to the Registrar’s Office at the home campus and retain a student copy for your files.
• International students need to verify full-time status with the Office of International Programs.

CSU Intrasystem and Intersystem Enrollment Programs

Students enrolled at any CSU campus have access to courses at other CSU campuses on a space available basis unless those campuses or programs are impacted or admission to the desired program or admission categories are closed. This access is offered without students being required to be formally admitted to the host campus and sometimes without paying additional fees. Although courses taken on any CSU campus will transfer to the student’s home CSU campus as elective credit, students should consult their home campus academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California community colleges. Applications and additional information about these programs are available from the Registrar’s Office.

CSU Concurrent Enrollment Program
• Matriculated students, in good standing, may enroll on a space available basis at both their home CSU campus and a host CSU campus during the same term.
• Credit earned at the host campus is reported at the student’s request to the home campus to be included on the student’s transcript, as resident credit, at the home campus.
• It is the student’s responsibility to make sure the credits have been incorporated into the official records of the home institution.

• This program is only available during the regular sessions of the academic year and specifically excludes summer session, winter session, and extension.
• International students need to verify full-time status with the Office of International Programs.

CSU Visitor Enrollment Program
• Matriculated students, in good standing, enrolled at one CSU campus may enroll on a space available basis at another CSU campus for one term.
• Credit earned at the host campus is reported at the student’s request to the home campus to be included on the student’s transcript, as resident credit, at the home campus.
• It is the student’s responsibility to make sure the credits have been incorporated into the official records of the home institution.
• This program is available during the regular sessions of the academic year and summer sessions, as available at the particular CSU campus, and may specifically exclude winter session and extension.
• The Visitor Enrollment Program is not available to international students (an F or J visa).

Intersystem Cross Enrollment Program

This program is for enrollment for undergraduate students between CSU and the University of California or California community colleges. Applications and additional information about these programs are available from the Registrar’s Office. The Cross Enrollment Program is only available during the regular sessions of the academic year and specifically excludes summer session, winter session, and extension. In addition,

• Matriculated CSU, UC, or community college students, in good standing, may enroll on a “space available” basis for one baccalaureate course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.
• It is the student’s responsibility to make sure the credits have been incorporated into the official records of the home institution.
• International students need to verify full-time status with the Office of International Programs.

The California State University International Programs

In addition to the opportunity to participate in the CSU International Programs, there is also the opportunity to study abroad through the 53 universities located in twenty-two countries with whom SF State has signed special agreements. These agreements call for an equal exchange of students going both ways with students wishing to study at San Francisco State University from a participating university overseas and students from San Francisco State who wish to study abroad in the host university at which the other student is enrolled. Some of these programs are also college or department specific.

Some of the SF State Bilateral Exchange Partner Institutions include:

Argentina – Belgrano University (BECA, Business, Economics, Engineering, Hospitality and Tourism Management, Journalism, Psychology, and others).
Australia – Deakin University (Health and Nutrition Sciences, Psychology, and others), International College of Management, Sydney (Hospitality and Tourism Management), Swinburne University (BECA, Cinema, and Design and Industry), University of Technology, Sydney (Apparel Design and Merchandising, BECA, Cinema, Journalism, Holistic Health, Interior Design, and others).

Austria – MODUL University (Hospitality and Tourism Management).

Canada – Concordia University (most academic areas).

China – City University of Hong Kong (Business, Social Sciences, and Humanities), Hong Kong Polytechnic University (Hospitality and Tourism Management), and Shanghai Normal University (Cinema).

Czech Republic – University of Economics, Prague (MBA, Business, Economics and International Relations).

Denmark – Aarhus School of Business (MBA, Business and Communication Studies), Danish School of Media and Journalism (BECA and Journalism), and the University of Aarhus (Humanities and Social Sciences).

Finland – Lappeenranta University of Technology (MBA and Business).

France – SKEMA Business School (MBA), ESCEM School of Business and Management (Business), American Business School, Paris (Business), and MBA Institute Paris (Undergraduate Business).

Germany – the European Business School (Business), Fachhochschule Aachen (Business), Fachhochschule Furtwangen (BECA), Fachhochschule Fulda (Computer Science and Social Work), and Fachhochschule Würzburg (Business).

Ireland – Dublin Institute of Technology (Design and Industry).

Italy – University of Pavia (most academic areas) and Nuova Accademia di Belle Arti (Apparel Design and Merchandising, Industrial Design, Graphic Design, Interior Design).

Japan – Akita International University (Business, Humanities, and Social Sciences), Aoyama Gakuin (Business and Japanese), Kyoto University of Foreign Studies (Japanese), Oita University (Japanese), Meijo University (Japanese), and Oberlin University (International Relations and Japanese).

Korea – Chung Ang University (Business, Child and Adolescent Development, Economics, Engineering, English Education, Liberal Studies, and other areas) and the University of Seoul (International Relations, Pacific Asian Studies, Political Science, Urban Studies, and other areas).

The Netherlands – Atheneum Business School (Business), Rotterdam Business School (Business), University of Amsterdam (most Humanities and Social Sciences including Anthropology, History, Humanities, Human Sexuality Studies, International Relations, Political Science, Urban Studies, and Women and Gender Studies), and Utrecht School of Journalism (Journalism).

Spain – University of Zaragoza, Huesca Campus (Dietetics and Kinesiology).

Sweden – Linnaeus University, Kalmar and Vaxjo Campuses (Business, Education, Health Sciences, Humanities, Social Sciences, and Mathematics).

Taiwan – Chung Yuan Christian University (Chinese Teacher Training and Design and Industry), National Chengchi University (MBA and Business), National Taiwan Normal University (Chinese Translation and Interpretation).

Thailand – Chulalongkorn University (MBA and Business), Mahidol University International College (Asian–American Studies, Environmental Studies, Hospitality and Tourism Management, Pacific Asian Studies).

Turkey – Koç University (Business, Humanities, Science and Engineering and Social Sciences).

United Kingdom – Brunel University (Design and Industry and Kinesiology), Cardiff University (Criminal Justice, English Literature, International Relations, and Political Science), London Metropolitan University (Apparel Design and Merchandising, and Psychology), Regent’s College/European Business School, London (MBA, Hospitality and Tourism Management, Psychology, and other areas), University of East Anglia (BECA, Cinema, Creative Writing, Environmental Studies, English Literature, Laboratory Sciences, Theatre Arts, and more), and University of Wales, Swansea (Business and Economics).

As with the CSU International Programs, the student pays tuition and fees at San Francisco State but takes classes at the host university and earns regular SF State resident credit. Financial aid, with the exception of Federal Work–Study, is available to qualified students.

Additional information and application materials may be obtained from:

Office of International Programs
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132
(415) 338–1293
oip.sfsu.edu (http://oip.sfsu.edu)
e–mail: studyabroad@sfsu.edu (studyabroad@sfsu.edu)

Student Health Service

San Francisco State University Student Health Services provides accessible and low–cost quality health care to all SF State Students. Our goal is to help students develop the skills and knowledge to manage their own health.

The Student Health Service is next to the Ethnic Studies and Psychology Building, directly across the pathway from Burk Hall and east of the Student Services Building.

Staff includes board certified physicians and nurse practitioners, psychiatrists, pharmacists, registered nurses, a nutritionist, an athletic trainer, an X–ray technologist, and laboratory and clinical support staff.

SHS adheres to the CSU Policy of the Board of Trustees on Student Health Services and is accredited by the Accreditation Association for Ambulatory Health Care (AAAHCC).

Year Round Operating Hours

Monday–Tuesday–Thursday–Friday: 8:10 a.m. – 4:45 p.m.
Wednesday: 10:00 a.m. – 4:45 p.m.
Closed except for extremely urgent medical services on Wednesdays: 8:10 to 10:00 a.m. & daily 4:45 to 5:00 p.m.
Student Health Services is closed on official University holidays.

**Contacts**

**myHealth:** http://shs.sfsu.edu
- To schedule appointments online
- To cancel appointments online
- Lab and Test results
- Secure messages from SHS providers
- Prescription refills – click on messages

**Emergencies on campus:** (415) 338–2222
**Emergencies off campus:** 911

**SHS Information:** (415) 338–1251
**Appointments online:** health.sfsu.edu (http://health.sfsu.edu)
**Appointments by phone:** (415) 338–1719
**Cancellations by phone:** (415) 338–1719 (day)
**Cancellations via myHealth:** health.sfsu.edu (http://health.sfsu.edu)
**After Hours Nurse Advice:** (415) 338–1251, Press 1
**Comments:** Feedback@shs.edu

**International Health Insurance SHS email:** shsinsur@sfsu.edu
**Website:** http://health.sfsu.edu

**Confidentiality of Medical Information**
Student Health Services medical records are confidential. Information will not be released without written consent except as required by law.

**Eligibility**
All SF State students who pay the mandated Student Health Fee can receive health services at SHS. A current student ID must be shown before receiving services.

Student Health Services appreciates the diversity of human beings and welcomes students of any race, color, national origin, age, religion, ability, marital status, sex, sexual orientation, and gender identity or expression.

**Medical Services**
Medical services at Student Health Services are funded by the Student Health Fee.

Lab tests, immunizations/shots, and pharmacy services are charged for the cost of the service plus a handling fee.

**Medical services** include basic care for new and short-term health conditions, illnesses, and injuries and appointments with medical providers.

Lab & X-ray services supporting basic care at Student Health Services.

**Gynecological services**, including evaluation and treatment of gynecological problems, wellness exams, birth control education, birth control prescriptions, emergency contraception, and evaluation and treatment of sexually transmitted infections (STIs) for female-bodied students.

**Family Planning, Access, Care, & Treatment (PACT)** enrollment for eligible SF State students seeking family planning services including birth control and emergency contraception. If SF State students qualify for Family PACT under the State of California program guidelines they can enroll at their first appointment at SHS.

**Immunization services** include immunizations/shots/vaccines for the prevention and control of common communicable diseases.

**Pharmacy:** Most SHS and outside physician prescribed medications can be filled at the SHS Pharmacy. The Pharmacy accepts many health insurance plans and medications are low cost.

**Nutrition services** including individual appointments and group/classroom presentations on sports nutrition, weight management, eating disorders, vegetarian diet, and nutrition assessment.

**Mental health services** including psychiatric care and medication management, links to campus and community resources.

**Specialty Services**
Fees are charged for specialty services.

**Podiatry:** evaluation of lower extremity alignment, fitting for custom orthotics and treatment of other foot problems

**Immunizations/shots or lab tests** (not related to basic service) and those performed off the premises.

**Rehabilitation services** with Student Health Services Athletic Trainer

**Urgent Medical Care**
SHS Nurses evaluate and refer students as appropriate to Urgent Care appointments with providers during clinic hours.

**Graduated Students**
Students nearing graduation should seek alternate health care providers to ensure continuity of care. Limited care may be provided at the SHS for a brief period after graduation with a fee charged for these services. Family PACT services should be sought at Family PACT clinics in the community.

**Care to Non–Students**
First aid services are available to all SF State staff, faculty, and visitors.

**No Show Fee**
Due to high patient demand and the limited availability of appointments, students must give advance notice to cancel an appointment or they will be charged a $20 no-show fee. Students can cancel their appointment online at: health.sfsu.edu (http://health.sfsu.edu) or by calling (415) 338–1251 during clinic hours.

Students will have to pay the full Podiatry Clinic fee if they do not cancel your appointment.

**SHAC**
The Student Health Advisory Committee at San Francisco State is a student–run organization that makes recommendations in regards to student health services, programs, and fees. SHAC meets weekly for lunch and discussions at SHS. See SHAC website for more details. http://health.sfsu.edu/content/student-health-advisory-committee.
Health Insurance
Student Health Service strongly encourages students to obtain health insurance coverage. Students may need to use community services such as specialty services and testing (e.g. MRI), emergency care or care for acute illnesses or injuries when SHS is not open.

Students can purchase a health insurance plan including Medi-Cal through Covered CA at their website CoveredCA.com (http://www.CoveredCA.com)

Alternately, students can purchase a student-focused health insurance plan through the California State University system. Students can visit www.csuhealthlink.com (http://www.csuhealthlink.com) for more information.

Student Health Services CANNOT assume responsibility for payment of outside medical care including ambulance services.

Recommended Immunizations
Please visit the "Vaccinate before you graduate" Website for the CDC recommendations: www.cdc.gov/vaccines/who/teens/index.html (http://www.cdc.gov/vaccines/who/teens).

Meningococcal Disease Information: Each incoming freshman who will be residing in on-campus housing will be required to return a form to the University Housing Business Office indicating that they have received information about meningococcal disease, the availability of the vaccine to prevent contracting the disease, and indicating whether or not the student has chosen to receive the vaccination.

Campus Information for Required Immunizations
Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of enrollment.

Measles and Rubella
All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment.

Hepatitis B
All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period.

Prospective SF State students should send their completed “proof of immunization form” of the REQUIRED immunizations to the University Registrar’s office BEFORE enrolling in classes. The form can be downloaded at http://health.sfsu.edu/content/vaccinations--and--immunizations#Required-Immunizations

If you have any questions about required immunizations, please contact the University Registrar’s Office at (415) 338–2350.

University Registrar’s Office, One Stop Student Services Center
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132
Phone: (415) 338–2350

Fax: (415) 338–0588
Email: records@sfsu.edu

1 Immunization records are not saved by the Registrar. Remember to keep copies!

Testing Center
The Testing Center serves the university by coordinating and administering educationally required testing programs to include scoring, recording, and reporting results of tests required of students for admission (undergraduate and graduate); diagnostic and course placement purposes; credit, certification, and graduation requirements.

The center provides information about all types of tests and supplies registration materials for many educationally required examinations.

The center administers tests to students referred by academic and career counselors. The results are used to assist them in determining educational and career goals.

The center provides support to faculty by offering computer scoring and statistical analysis of classroom tests, processing of faculty evaluations, and consultation in test design and measurement.

The Testing Center can be reached at (415) 338-2271 or via e-mail: testing@sfsu.edu. For test information, go to testing.sfsu.edu (http://testing.sfsu.edu)

Tutoring Services and Academic Support
SF State offers students support in their course work through tutoring, academic support programs, and individual conferences with instructors. There is no fee for SF State students for most options.

Faculty Office Hours
All faculty maintain regular office hours and they encourage students to meet with them. Meeting with instructors can help students answer questions, solve problems, prepare for tests, figure out how to do assignments, find additional help if needed, and even plan academic and career goals.

Students can find out about faculty office hours from the instructor, course syllabus, department offices, or websites. If students would like to meet with instructors individually, it is best to arrange an appointment in advance.

Tutoring Support
Learning Assistance Center (LAC)
The Learning Assistance Center (LAC) offers tutoring for undergraduate SF State students in the following areas: reading, writing, math, sciences and study skills for courses across disciplines. Tutors meet individually and in groups with students in both lower and upper division courses, including GWAR courses. As part of their ongoing education at the Center, LAC tutors complete a course and attend workshops on developing tutoring/teaching skills and strategies. The LAC is located in HSS 348 and is open Monday through Thursday, 9:00 a.m. – 4:00 p.m., and Friday, 9:00 a.m. – 12:00 p.m. Contact the LAC at (415) 338–1993 or visit the website at (http://www.sfsu.edu/~lac).sfsu.edu (http://lac.sfsu.edu) to find out how to register and make appointments.
Campus Academic Resource Program (CARP)
The Campus Academic Resource Program (CARP) provides critical academic support services and evening tutorial opportunities for all undergraduate students at San Francisco State (SF State), placing special emphasis on first-generation and underrepresented students. CARP offers both one-on-one and group tutorial sessions to accommodate students’ individual learning needs and styles. Additionally, CARP Student Staff develop and facilitate in-class, study skills, content-based, and peer response workshops and collaborate with a variety of SF State programs and departments to provide tailored services for a wide range of students.

CARP is located in HSS 344 and is open Monday – Thursday from 4:00 p.m. – 8:00 p.m. and Friday from 11:00 a.m. – 2:00 p.m. Summer tutoring hours are 10:00 a.m. – 3:00 p.m. Monday through Thursday and 10:00 a.m. – 2:00 p.m. Friday.

For further information about CARP and the services we offer, please visit our website at carp.sfsu.edu (http://carp.sfsu.edu) or call (415) 405–0316.

Department-Based Tutoring
Academic departments are possible sources of tutoring. For example, the following departments have offered academic support in the past: Accounting, Decision Sciences, Economics, English Composition (arrangements made through English instructors for the English Tutoring Center), Finance, Mathematics, and Philosophy (Critical Thinking). Check with particular departments to find out if they offer tutoring. Consult the SF State home page directory for department office locations and websites.

Course-Based Tutoring
For many courses, instructors have student assistants who can work with students on their course work. Students should take the opportunity to get to know these assistants—ask questions about course material or assignments and, if appropriate, set up tutoring time.
ACADEMIC PROGRAMS


A
Accountancy (p. 200): Bachelor’s Degree
Accounting (p. 200): Bachelor's Concentration, Minor, Certificate
Adapted Physical Education Curriculum (p. 525)
Adult Education (p. 298): Master's Concentration
African Studies (p. 605): Minor
Africana Studies (p. 345): Bachelor's Degree, Minor
American Indian Studies (p. 355): Bachelor's Degree, Minor
American Studies (p. 606): Bachelor's Degree, Minor
Animation (p. 675): Minor
Anthropology (p. 614): Bachelor’s Degree, Minor, Master’s Degree
Apparel Design and Merchandising (p. 438): Bachelor's Degree
Applied Mathematics (p. 1219): Bachelor's Degree
Arab and Muslim Ethnicities and Diasporas Studies (p. 364): Minor
Art (p. 624): Bachelor's Degree, Minor, Master's Degree
Art Education (p. 624): Bachelor's Concentration
Art History (p. 624): Bachelor's Concentration
Art History and Studio Art (p. 624): Bachelor's Concentration
Asian American Studies (p. 365): Bachelor's Degree, Minor, Master's Degree
Astronomy (p. 1256): Bachelor's Concentration, Minor
Astrophysics (p. 1256): Bachelor's Concentration
Athletic Coaching (p. 525): Minor, Certificate
Augmentive and Alternative Communication (p. 319): Certificate
Autism Spectrum (p. 319): Certificate

B
Biochemistry (p. 1106): Bachelor's Degree, Master's Concentration
Biology, General (p. 1033): Bachelor's Degree, Minor
Biomedical Science (p. 1033): Master's Degree
Biotechnology (p. 1033): Certificate
Botany (p. 1033): Bachelor's Concentration

Broadcast and Electronic Communication Arts (p. 662): Bachelor's Degree, Master's Degree
Business Administration (p. 199): Bachelor's Degree, Minor, Master's Degree
Business Ethics and Compliance (p. 291) (Graduate Certificate)

C
California Studies (p. 674): Minor
Cell and Molecular Biology (p. 1033): Bachelor's Concentration, Master's Concentration
Chemistry (p. 1106): Bachelor's Degree, Minor, Master's Degree
Child and Adolescent Development (p. 406): Bachelor's Degree
Chinese (p. 892): Master's Degree
Chinese Language (p. 892): Bachelor's Concentration, Minor
Chinese Literature and Linguistics (p. 892): Bachelor's Concentration, Minor
Cinema (p. 675): Bachelor's Degree, Minor, Master's Degree
Cinema Studies (p. 675): Master's Degree
Civil Engineering (p. 1166): Bachelor's Degree, Minor
Classics (p. 701): Bachelor's Degree, Minor, Master's Degree
Clinical Laboratory Science (p. 558): Certificate
Clinical Psychology (p. 1295): Master's Concentration
Commercial Real Estate (p. 291): Certificate
Communication Studies (p. 707): Bachelor's Degree, Minor, Master's Degree
Communicative Disorders (p. 319): Bachelor's Degree, Master's Degree
Comparative Literature (p. 719): Bachelor's Degree, Minor, Master's Degree
Composition (p. 769): Master's Concentration
Computer Engineering (p. 1166): Bachelor's Degree, Minor
Computer Science (p. 1129): Bachelor's Degree, Minor, Master's Degree
Conflict Resolution (p. 729): Certificate
Consumer and Family Sciences: see Family and Consumer Sciences (p. 438)
Cooperative Education (p. 1140): Certificate
Counseling (p. 466): Minor, Master's Degree
Counseling Deaf Persons (p. 466): Certificate
Counseling Deafened and Hard of Hearing Persons (p. 466): Certificate
Creative Writing (p. 731): Bachelor's Concentration, Master's Concentration, Master's Degree
Credential Programs, Teaching and Educational Services (p. 332)
Criminal Justice Studies (p. 474): Bachelor's Degree, Minor
Critical Social Thought (p. 747): Minor

D
Dance (p. 749): Bachelor's Degree, Minor
Decision Sciences (p. 222): Bachelor's Concentration, Minor
Design (p. 757): Master's Degree
Design/Technical Production (Theatre Arts) (p. 1012): Master's Concentration
Developmental Psychology (p. 1295): Master's Concentration
Dietetics (p. 438): Bachelor's Degree, Certificate
Digital Animation (p. 394): Certificate
Digital Media Production (p. 395): Certificate
Drama (p. 1012): Bachelor's Degree, Minor [also see Theatre Arts]

E
Early Childhood (p. 406): Bachelor's Concentration
Early Childhood Education (p. 311): Master's Concentration
Early Childhood Special Education (p. 319): Certificate
Earth Sciences (p. 1141): Bachelor's Degree, Minor
Ecology (p. 1033): Bachelor's Concentration
Ecology, Evolution, and Conservation Biology (p. 1033): Master's Concentration
Economics (p. 228): Bachelor's Degree, Minor, Master's Degree
Education Overview (p. 296)
Education (p. 306): Doctoral Degree
Education (p. 309): Minor
Education, Special Interest Area (p. 298): Master's Concentration
Educational Administration (p. 298): Master's Concentration
Educational Leadership (p. 306): Doctoral Degree
Educational Technology: see Instructional Technologies (p. 298)
Electrical Engineering (p. 1166): Bachelor's Degree, Minor
Elementary Education (p. 311): Master's Concentration
Embedded Electrical and Computer Systems (p. 1166): Master's Concentration
Energy Systems (p. 1166): Master's Concentration
Engineering (p. 1166): Master's Degree (for undergraduate degrees, see civil, computer, electrical, or mechanical engineering)
English and American Literature (p. 769): Minor
English: Creative Writing (p. 731): Bachelor's Concentration, Master's Concentration
English: English Education (p. 769): Bachelor's Concentration
English: Individual Major (p. 769): Bachelor's Concentration
English: Linguistics (p. 769): Bachelor's Concentration
English: Literature (p. 769): Bachelor's Concentration
English: English and American Literature (p. 769): Minor
English: Linguistics (p. 769): Minor
English: Composition (p. 769): Master's Concentration
English: Linguistics (p. 769): Master's Concentration
English: Literature (p. 769): Master's Concentration
English: TESOL (Teaching English to Speakers of Other Languages) (p. 769): Master's Concentration
English: Immigrant Literacies (p. 769): Certificate
English: Teaching Composition (p. 769): Certificate
English: Teaching Post-Secondary Reading (p. 769): Certificate
Environmental Science (p. 1198): Bachelor's Degree
Environmental Studies (p. 492): Bachelor's Degree
Equity and Social Justice in Education (p. 298): Master's Concentration
Ethnic Studies (p. 376): Certificate, Master's Degree
European Studies (p. 813): Minor
Executive Master of Business Administration (p. 287): Master's Degree
Exercise and Movement Sciences (p. 525): Bachelor's Concentration
Exercise Physiology (p. 525): Certificate

F
Family and Consumer Sciences (p. 438): Bachelor's Degree, Master's Degree
Family Nurse Practitioner (p. 544): Master's Concentration, Certificate
Film: see Cinema (p. 675)
Film and Media Studies (p. 396): Certificate
Finance (p. 237): Bachelor's Concentration, Minor
Flagship Chinese Language (p. 892): Bachelor's Concentration
Foreign Languages and Literatures (p. 890): see individual languages
French (p. 910): Bachelor's Degree, Minor, Master's Degree
G
- Genetic Engineering (p. 1033): Certificate
- Geographic Information Science (p. 1198): Master's Degree
- Geography (p. 1198): Bachelor's Degree, Minor, Master's Degree
- Geology: see Earth Sciences (p. 1141)
- Geosciences (p. 1141): Master's Degree
- German (p. 917): Bachelor's Degree, Minor, Master's Degree
- Gerontology (p. 506): Master's Degree
- Global Peace, Human Rights, and Justice Studies (p. 816): Minor
- Guide Dog Mobility (p. 319): Certificate

H
- Health Education (p. 509): Bachelor's Degree, Minor
- History (p. 818): Bachelor's Degree, Minor, Master's Degree
- History Honors (p. 818): Bachelor's Concentration
- Holistic Health (p. 509): Minor, Certificate
- Home Economics (p. 438): see Family and Consumer Sciences
- Hospitality and Tourism Management (p. 248): Bachelor's Degree, Minor, Certificate
- Human Sexuality Studies (p. 576): Minor, Master's degree
- Humanities (p. 834): Bachelor's Degree, Minor, Master's Degree

I
- Immigrant Literacies (p. 769): Certificate
- Industrial Arts (p. 757): Minor
- Industrial Design (p. 757): Bachelor's Degree
- Industrial/Organizational Psychology (p. 1295): Master's Concentration
- Information Systems (p. 254): Bachelor's Concentration, Minor
- Information Technology Auditing (p. 254): Certificate
- Instructional Technologies (p. 298): Master's Concentration
- Interdisciplinary Studies (Graduate) (p. 1311) Master's Degree
- Interior Design (p. 438): Bachelor's Degree
- International Business (p. 260): Bachelor's Concentration, Minor, Certificate
- International Relations (p. 846): Bachelor's Degree, Minor, Master's Degree
- Italian (p. 923): Bachelor's Degree, Minor, Master's Degree

J
- Japanese (p. 929): Bachelor's Degree, Minor, Master's Degree
- Jewish Studies (p. 853): Bachelor's Degree, Minor
- Journalism: (p. 862) Bachelor's Degree, Minor (see Print and On-line Journalism, and Photojournalism)

K
- Kinesiology (p. 525): Bachelor's Degree, Master's Degree

L
- Labor and Employment Studies (p. 267): Bachelor's Degree, Minor
- Language and Literacy Education (p. 311): Master's Concentration
- Latin American Studies (p. 874): Minor
- Latina/Latino Studies (p. 379): Bachelor's Degree, Minor
- Lesbian, Gay, Bisexual, and Transgender Studies (p. 576): Minor
- Liberal Studies (p. 876): Bachelor's Degree
- Linguistics (p. 769): Bachelor's Concentration, Minor, Master's Concentration
- Literature (p. 769): Bachelor's Concentration, Master's Concentration

M
- Management (p. 273): Bachelor's Concentration, Minor
- Marine Biology (p. 1033): Master's Concentration
- Marine Biology and Limnology (p. 1033): Bachelor's Concentration
- Marine Science (p. 1218): Master's Degree
- Marketing (p. 279): Bachelor's Concentration, Minor
- Marriage, Family, and Child Counseling (p. 466): Master's Concentration
- Mathematics (p. 1219): Bachelor's Degree, Minor, Master's Degree
- Mathematics Education (elementary) (p. 311): Master's Concentration
- Mathematics Education (secondary) (p. 316): Master's Concentration
- Mathematics for Advanced Study (p. 1219): Bachelor's Concentration
- Mathematics for Liberal Arts (p. 1219): Bachelor's Concentration
- Mathematics for Teaching (p. 1219): Bachelor's Concentration
- Mechanical Engineering (p. 1166): Bachelor's Degree, Minor
- Medical Technology (p. 1033): see Clinical Laboratory Science or Biomedical Science
- Meteorology: see Earth Sciences (p. 1141)
- Microbiology (p. 1033): Bachelor's Concentration, Master's Concentration
- Middle East and Islamic Studies (p. 887): Minor
- Mind, Brain, and Behavior (p. 1295): Master's Concentration
- Modern Greek Studies (p. 889): Minor
- Modern Languages and Literatures (p. 890): see individual languages
- Movement Science (p. 525): Certificate
Museum Studies (p. 946): Minor, Master’s Degree
Music (p. 949): Bachelor’s Degree, Minor, Master’s Degree
Music/Recording Industry (p. 397): Certificate

N
Natural Resource Management and Conservation (p. 492): Bachelor’s Concentration
Nursing (p. 544): Bachelor’s Degree, Master’s Degree

O
Oceanography: see Earth Sciences (p. 1141)

P
Pacific Asian Studies (p. 969): Minor
Paralegal Studies (p. 398): Certificate
Persian Studies (p. 936): Minor
Philosophy (p. 971): Bachelor’s Degree, Minor, Master’s Degree
Philosophy and Religion: (p. 971) Bachelor’s Degree, Minor
Photojournalism (p. 862): Bachelor’s Concentration
Physical Activity: Social Scientific Perspectives (p. 525): Certificate
Physical Education (p. 525): Bachelor’s Concentration
Physical Therapy (p. 558): Doctoral Degree
Physics (p. 1256): Bachelor’s Degree, Minor, Master’s Degree
Physics for Teaching (p. 1285): Bachelor’s Concentration
Physiology (p. 1033): Bachelor’s Concentration
Physiology and Behavioral Biology (p. 1033): Master’s Concentration
Political Science (p. 1001): Bachelor’s Degree, Minor, Master’s Degree
Pre-health Professions (p. 400): Certificate
Pre-nursing (p. 402): Certificate
Pre-physical Therapy (p. 525) Curriculum
Print and On-line Journalism (p. 862): Bachelor’s Concentration
Product Design and Development (p. 757): Bachelor’s Concentration
Psychology (p. 1295): Bachelor’s Degree, Minor, Master’s Degree
Public Accountancy, Study of (p. 200): Certificate
Public Administration (p. 563): Master’s Degree
Public Health (p. 509): Master’s Degree
Recreation, Parks, and Tourism Administration (p. 567): Bachelor’s Degree
Rehabilitation Counseling (p. 466): Certificate, Master’s Concentration
Religious Studies (p. 1010): Minor
Resource Management and Environmental Planning (p. 1198): Master’s Concentration
Russian (p. 937): Minor

S
School Age Child and Family (p. 406): Bachelor’s Concentration
School Psychology (p. 1295): Master’s Concentration
Screenwriting (p. 404): Certificate
Secondary Education (p. 316): Master’s Concentration
Sexuality Studies (p. 576): Minor, Master’s Degree
Social Psychology (p. 1295): Master’s Concentration
Social Work (p. 580): Bachelor’s Degree, Master’s Degree
Sociology (p. 590): Bachelor’s Degree, Minor
South Asian Studies (p. 1011): Minor
Spanish (p. 938): Bachelor’s Degree, Minor, Master’s Degree
Spanish-English Interpretation (p. 405): Certificate
Special Education (p. 319): Minor, Master’s Degree, Doctoral Concentration
Special Major (p. 1312): Bachelor’s Degree
Statistics (p. 1219): Bachelor’s Degree
Structural/Earthquakes (p. 1166): Master’s Concentration
Studio Art (p. 624): Bachelor’s Concentration
Sustainable Business (p. 287): Master’s Concentration

T
Teaching English to Speakers of Other Languages (p. 769): Master’s Concentration
Teaching of Composition (p. 769): Certificate
Teaching Post-secondary Reading (p. 769): Certificate
Technical and Professional Writing (p. 769): Bachelor’s Degree, Minor, Certificate
Theatre Arts (p. 1012): Master’s Degrees [also see Drama]
Training Systems Development (p. 298): Certificate

U
Urban Studies and Planning: (p. 599) Bachelor’s Degree, Minor
V
Visual Communication Design (p. 757): Bachelor's Degree

W
Weather Study (p. 1141): Certificate

Women and Gender Studies (p. 1023): Bachelor's Degree, Minor, Master's Degree

Women's Health Issues (p. 509): Minor

World Development Studies (p. 285): Minor

World Music and Dance (p. 1032): Minor

Y
Youth Work and Out of School Time (p. 406): Bachelor's Concentration

Youth and Human Services Non-profit Agency Administration (p. 567): Certificate

Z
Zoology (p. 1033): Bachelor's Concentration
BUSINESS ADMINISTRATION

Program Scope
The College of Business is made up of ten departments supervised by chairpersons. The departments are:

- Accounting
- Decision Sciences
- Economics
- Finance
- Hospitality and Tourism Management
- Information Systems
- International Business
- Labor and Employment Studies
- Management
- Marketing

The primary objectives of the College of Business at San Francisco State University are to:

- Provide students majoring in business administration with a foundation in the basic concepts and practices of the business community, and with a particular expertise in one or more of the specialties of practice, to prepare them to think creatively and to exercise critical judgment in the making of business decisions;
- Provide other students with a general understanding of the foundations and philosophies of the business community;
- Encourage a continuous liaison with the business community to respond to the educational needs of that community;
- Encourage faculty professional development activities designed to provide service to all segments of business and education for business through academic research and publication, applied research and publication, community education and services (seminars and consulting involving non-publishable, proprietary research, for example), and self-education or study designed to improve business knowledge and expertise.

The College of Business Student Services Center, located in the Business Building, Room 112, provides on-site academic program counseling for students enrolled or interested in business.

Major
B.S. in Business Administration (p. 209)

Concentrations in:

- Accounting (p. 200)
- Decision Sciences (p. 222)
- Entrepreneurial/Small Business Management (Temporarily Suspended)
- Finance (p. 237)
- Finance with Certificate in Commercial Real Estate (p. 242)
- General Business (p. 209)
- Information Systems (p. 254)
- International Business (p. 260)
- Management (p. 273)
- Marketing (p. 279)
Accounting

College of Business
Dean: Linda Oubre

Department of Accounting
Science Building, Room 300
(415) 338-1107
E-mail: acctg@sfstate.edu
Chair: Jiunn Huang
Undergraduate Advisors: Chang, Chen, Choo, Chou, Hammond, Hetherington, Hsieh, Jerris, Kang, Luo, Ruan

Faculty

Professors


SU-JANE HSIEH (1992), Professor of Accounting; B.S. (1978), National Chengchi University; M.A. (1980), The University of Nebraska; Ph.D. (1985), Purdue University.

JIUNN C. HUANG (1986), Professor of Accounting; B.C. (1971), National Chengchi University; M.B.A. (1976), West Texas State University; Ph.D. (1980), North Texas State University; C.M.A. (1983).

SCOTT JERRIS (1997), Professor of Accounting; B.S. (1982), State University of New York, Albany; Ph.D. (1987), Purdue University.

JAI SEONG KANG (1983), Professor of Accounting; B.A. (1968), Yonsei University; M.B.A. (1973), Central Missouri State University; Ph.D. (1977), Texas A & M University; C.P.A. (1982).


Associate Professor
CHUN CHIA CHANG (2007), Associate Professor of Accounting; B.S. (1998), National Taipei University; M.P.A. (2000), St. Louis University; Ph.D. (2006), University of Houston.

Assistant Professors
MIN CHEN (2015), Assistant Professor of Accounting; B.A. (2008), North China University of Technology; M.A. (2011), East Tennessee State University; Ph.D. (2015), Kent State University.

SHIH-CHU CHOU (2016), Assistant Professor of Accounting; B.B.A. (2008), National Taiwan University; M.P.A. (2010), The University of Texas at Austin; Ph.D. (2016), The University of Texas at Dallas.

KATHERINE M. HETHERINGTON (2014), Assistant Professor of Accounting; B.A. (1999), Pomona College; J.D. (2005), University of Washington School of Law; L.L.M. (2008), University of Florida Levin College of Law.

BING LUO (2015), Assistant Professor of Accounting; B.S. (2007), South China Normal University; M.B.A. (2009), Emporia State University; Ph.D. (2015) University of North Texas.


Lecturer

Majors
- Bachelor of Science in Business Administration: Concentration in Accounting (p. 200)

Minors
- Minor in Accounting (p. 206)

Certificate
- Certificate in the Study of Public Accountancy (p. 294)

Masters
- Master of Science in Accountancy (p. 206)

Certificate
- Certificate in Accounting (p. 292)

Bachelor of Science in Business Administration: Concentration in Accounting

Concentration in Accounting
The accounting concentration is designed to provide a solid foundation of accounting and business knowledge that prepares students for careers in accounting. Courses are structured to allow flexibility in preparing for a career path in public accounting, private industry, and government or nonprofit organizations. The program offers a wide variety of courses which can be used to qualify and prepare for examinations in professional certifications such as CPA, CIA, and CMA. Students should consult with an accounting advisor to determine minimum course requirements for these certifications. The accounting curriculum also provides the foundation for graduate study.
Impaction

The undergraduate accounting program is impacted at the upper division level. This means that there are more students interested in studying accounting than the program can accommodate. Therefore, entrance into the program is a selective and competitive process. Eligible first-time freshman applicants can be admitted to the university as pre-Accounting. These students and other continuing SF State students who want to major in accounting should apply directly to the accounting department.

Application Information

Application for admissions to the accounting program are accepted during the application filing periods.

- Upper division transfer students: October 1 to November 30 for admissions for the following fall
- Continuing SF State students: During October for the Spring admissions and during March for the Fall admission.

For more application information, please refer to the Accounting Department Website.

All concentration courses must be taken on a letter-grade basis. Students must have a minimum grade point average of 2.0 in the accounting concentration. A minimum of 12 units in the accounting concentration must be completed at San Francisco State University. For a course transferred from another university to count toward the accounting concentration it must, minimally:

1. be from an AACSB-accredited institution,
2. cover applicable United States Generally Accepted Accounting Principles (US GAAP), laws, and regulations,
3. been completed within the last five years with a grade of at least C- (−), and
4. be approved by the appropriate SF State Department of Accounting course coordinator.

If rejected, the student may be granted a one-time challenge of the course coordinator’s decision by passing, in the first attempt, a comprehensive test of the appropriate material.

Bachelor of Science in Business Administration: Concentration in Accounting — 60 units

Prerequisites to Core Courses

In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 110</td>
<td>Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems (or a passing score on the ISYS 263 CLEP Exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions.

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management 1</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 301</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 302</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 305</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 units)

Select 12 units from the following or other courses upon approval of department chair:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 501</td>
<td>Advanced Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 504</td>
<td>Government and Non-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 506</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 507</td>
<td>Information Systems Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 508</td>
<td>Federal Tax Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 509</td>
<td>Federal Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 513</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 518</td>
<td>Accounting Fraud Examination</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 551</td>
<td>Principles of Internal Auditing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 320</td>
<td>Legal Aspects of Business Transactions</td>
<td>3</td>
</tr>
</tbody>
</table>
### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>LD Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>3</td>
<td></td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>3</td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>3</td>
<td></td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>3</td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>3</td>
<td></td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>3</td>
<td></td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>1</td>
<td></td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>3</td>
<td></td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>3</td>
<td></td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>3</td>
<td></td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>3</td>
<td></td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>3</td>
<td></td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>3</td>
<td></td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>3</td>
<td></td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td></td>
<td></td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>LD or UD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

### First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 204)

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Business Administration: Concentration in Accounting Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110 or DS 110</td>
<td>Business Calculus or Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 301</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD--D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 302</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
</tr>
</tbody>
</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 305</td>
<td>3</td>
</tr>
<tr>
<td>DS 412</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Major Elective (12 Units Total) – Take Two

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 682</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Major Elective (12 Units Total) – Take Two

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

#### SF State Studies or University Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**

120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Prepare: MATH 60 and/or MATH 70 are required prerequisites to MATH 110/DS 110 unless you score 50 or higher on ELM or have an ELM exemption.

4. Consider taking a class combined with a laboratory or a separate lab to fulfil B3 if not already satisfied.

5. **Major Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 501 Advanced Accounting (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 504 Government and Non-Profit Accounting (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 506 Auditing (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 507 Information Systems Auditing (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 508 Federal Tax Accounting I (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 509 Federal Tax Accounting II (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 513 International Accounting (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 518 Accounting Fraud Examination (3 units)</td>
<td></td>
</tr>
<tr>
<td>ACCT 551 Principles of Internal Auditing (3 units)</td>
<td></td>
</tr>
<tr>
<td>BUS 320 Legal Aspects of Business Transactions (3 units)</td>
<td></td>
</tr>
</tbody>
</table>
Minor in Accounting

Minor in Accounting
(This program is currently under review for discontinuance.)

The Minor in Accounting is designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, it can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for business majors wishing expertise in a second field.

Accounting Minor — 24 units

Required Courses (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 300</td>
<td>Accounting and Finance Reporting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 301</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 302</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 305</td>
<td>Economic Analysis for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (6 units)

Select 6 units from the following with prior approval of the accounting minor advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 305</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 307</td>
<td>Accounting Information Systems (open only to non-business majors)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 501</td>
<td>Advanced Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 504</td>
<td>Government and Non-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 506</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 507</td>
<td>Information Systems Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 508</td>
<td>Federal Tax Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 509</td>
<td>Federal Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 518</td>
<td>Accounting Fraud Examination</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 551</td>
<td>Principles of Internal Auditing</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: All courses with an ACCT prefix must be taken for a letter grade, except for ACCT 300.

1 ACCT 100 and ACCT 101 may be substituted for ACCT 300, on advisement.
2 ECON 101 and ECON 102 (formerly ECON 100) may be substituted for ECON 305, on advisement.

Master of Science in Accountancy

Faculty Coordinator: Theresa Hammond, Ph.D.
Phone: (415) 817-4300
E-mail: mba@sfsu.edu

Graduate Advisors: Hammond, Hetherington, Hsieh

General Information

The Master of Science in Accountancy (MSA) program provides an emphasis in accounting, with specialization in financial accounting tax, auditing, managerial accounting, and accounting information systems. In addition to ACCT 890 (3 units), at least 9 units of 800-level graduate accounting courses must be completed. The remaining 18 units may be selected from appropriate graduate and undergraduate courses. The course selection must be approved by an advisor. ACCT 800 and ACCT 801 may not be taken for credit if ACCT 301 and ACCT 302, or the equivalents, have been completed in which case two additional 800-level classes must be substituted. For students without prior accounting or business course work, additional classes may be needed to qualify for the 150 hour CPA licensure requirements. Contact the California State Board of Accountancy for details.

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from any of the MSA Graduate Advisors.

Accreditation

The MSA program is accredited by the most respected business accrediting association in the world, the Association to Advance Collegiate Schools of Business (AACSB). San Francisco State University is also accredited by the Western Association of Schools and Colleges (WASC). This ensures continuous improvement of faculty in teaching, research, and professional service.

Admission

U.S. citizens, permanent residents, and international students are accepted for both fall and spring admission according to the following schedule.

- Fall semester filing period: October 1 through May 15 (international applicants). October 1 through May 30 (domestic applicants). There are three rounds of application deadlines during this period.
- Spring semester filing period: August 1 through October 15 (international applicants). August 1 through November 1 (domestic applicants).

The above dates are subject to change. Check the Graduate Business Programs website for the latest dates.

Application Process

Each applicant to the MSA program must submit the following documents:

- California State University Application for Graduate or International Admission plus an application fee of $55
- One official transcript from every college or university attended
- The score on the GMAT (Graduate Management Admissions Test) or GRE (Graduate Record Examination). The deadline to take the GMAT or GRE is May 15 (international applicants) or May 30 (domestic applicants) for Fall admission and October 15 (international applicants) or November 1 (domestic applicants) of the prior year for Spring admission.
The California State University Application for Admission may be submitted before other documents are submitted, but the admission decision is not made until all required materials are received.

**Admission Criteria**

The College of Business admissions committee reviews an applicant’s overall qualifications and takes the following requirements into consideration:

- Completion of a degree equivalent to a four-year U.S. bachelor’s degree from a recognized university.
- A minimum 3.0 Grade Point Average overall, or in the last 60 semester units or 90 quarter units of university coursework completed (average incoming class GPA is 3.3).
- GMAT exam including total score, verbal, quantitative, writing scores, and integrated reasoning scores (average incoming class total GMAT score is 570) or the GRE test verbal, quantitative, and writing scores. A GMAT AWA score of 5.0 or a GRE AWA score of 4.5 or higher is required for classified admission. A GMAT AWA score of 4.5 or GRE AWA score of 4.0 is acceptable. However, a student will be conditionally admitted and must complete an approved College of Business writing course.
- Quality of statement of purpose using guidelines stated on College of Business website
- Two supportive letters of recommendation from workplace supervisors or faculty members
- Qualifications on résumé
- TOEFL score of at least 590/243/96 or IELTS score of at least 7.0 or PTE score of at least 65. The TOEFL, IELTS or PTE must have been taken within the past two years and is a requirement of all applicants who have earned their undergraduate degree from a country where the official language is not English.

Meeting minimum qualifications does not guarantee admission to the program.

**Program Requirements**

**Orientation and Professional Development Workshops**

The College of Business Graduate Programs orientation helps students prepare for the academic program and provides professional development opportunities. The workshops included during orientation are designed to enhance career prospects, professional communication style, leadership skills and teamwork. Students are expected to attend the required full-day orientation.

**Prerequisite Courses**

Depending upon a student’s previous academic background, the number of required prerequisite courses may range from 0 to 18 units. The prerequisite requirements are met by taking the six business foundation courses or by waivers of individual courses based on previous equivalent course work.

Students who have earned a bachelor’s degree in business administration within the past seven years from an Association to Advance Collegiate Schools of Business (AACSB)-accredited university, with a minimum 3.0 GPA in the last 60 semester units of coursework, automatically meet the program prerequisites. An up-to-date listing of AACSB schools around the world can be found on the AACSB International website. Students who have taken and completed course work equivalent to any of the prerequisite courses at other institutions within the last five to seven years may be able to waive individual prerequisite courses. Each equivalency is determined by course content, grade received, and the amount of time elapsed since the course was completed.

For students who completed their undergraduate degree in business over seven years ago, the program prerequisite courses offer an opportunity to refresh their knowledge and catch up on advances that have taken place in the different disciplines.

**Accountancy, M.S. – 30 - 51 units**

**Prerequisite Courses for Conditional Admits (3 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 714</td>
<td>Elements of Graduate Business Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Prerequisite Courses for M.S.A (0 - 18 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 776</td>
<td>Data Analysis for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS 780</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 783</td>
<td>Economics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS 785</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>BUS 782</td>
<td>Information Systems for Management</td>
<td></td>
</tr>
<tr>
<td>BUS 786</td>
<td>Operations Analysis</td>
<td></td>
</tr>
<tr>
<td>BUS 787</td>
<td>Marketing Management</td>
<td></td>
</tr>
<tr>
<td>BUS 788</td>
<td>Management Principles and Organizational Behavior</td>
<td></td>
</tr>
</tbody>
</table>

**Advanced Requirements (30 units)**

Students who have completed a non-accounting undergraduate degree should complete the following upon advisement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 800</td>
<td>Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 801</td>
<td>Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 804</td>
<td>Legal and Professional Responsibilities in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 811</td>
<td>Introduction to Federal Tax</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 802</td>
<td>Strategic Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 848</td>
<td>Seminar in Cost Accounting</td>
<td></td>
</tr>
</tbody>
</table>

**Culminating Experience Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 890</td>
<td>Ethics and Contemporary Accounting Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses offered by the accounting department by advisement of graduate major advisor (courses with ACCT prefix). Limitations: Up to 6 units may be upper-division undergraduate accounting courses (500 - level) with prior approval of the graduate major advisor.
Courses offered by the College of Business by advisement of graduate major advisor (800 level classes). Up to 6 units may be graduate level courses within the University, with prior advisor approval.

**Advancement to Candidacy (ATC) total: 30 units**

Students who have completed an undergraduate accounting degree should select the following upon advisement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 801</td>
<td>Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 831</td>
<td>Financial Statement Analysis</td>
<td></td>
</tr>
<tr>
<td>ACCT 802</td>
<td>Strategic Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 848</td>
<td>Seminar in Cost Accounting</td>
<td></td>
</tr>
<tr>
<td>ACCT 804</td>
<td>Legal and Professional Responsibilities in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 818</td>
<td>Accounting Ethics</td>
<td></td>
</tr>
</tbody>
</table>

**Culminating Experience Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 890</td>
<td>Ethics and Contemporary Accounting Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses offered by the accounting department by advisement of graduate major advisor (courses with ACCT prefix). Limitations: Up to 6 units may be upper-division undergraduate accounting courses (500-level) with prior approval of the major advisor.

Courses offered by the College of Business by advisement of graduate major advisor (800 level classes). Up to 6 units may be graduate level courses within the University, with prior advisor approval.

**Advancement to Candidacy (ATC) total: 30 units**

**Advancement to Candidacy**

Before being considered for advancement to candidacy, the applicant must meet all general University requirements, attend all professional development workshops at orientation, satisfy all prerequisite courses, earn an overall SF State Grade Point Average (GPA) of at least 3.0, and complete at least 6 units of College of Business advanced requirement courses.

When requirements have been satisfied, the graduate advisor may recommend to the Dean of the Division of Graduate Studies that the applicant be advanced to candidacy for the degree by filing the Advancement to Candidacy (ATC) form.
Bachelor of Science in Business Administration: Concentration in General Business

Concentration in General Business

The concentration in General Business is designed to provide a solid foundation in the functional areas of business and offers students flexibility in selecting from a broad range of business courses. The concentration is intended to prepare students for careers in small, medium, or family businesses.

All concentration courses must be taken on a letter-grade basis. Students must have a minimum grade point average of 2.0 in all concentration courses.

Bachelor of Science in Business Administration: Concentration in General Business – 60 units

Prerequisites to Core Courses

In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 110</td>
<td>Business Calculus</td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems (or a passing score on the ISYS 263 CLEP Exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions.

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management 1</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
</tbody>
</table>

List 1 (6 units)

Select two of the following with different prefixes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.

List 2 (6 units)

Select two of the following with different prefixes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 440</td>
<td>Ethics at Work: Business Impacts</td>
<td>3</td>
</tr>
<tr>
<td>BUS 450</td>
<td>Greens of Business</td>
<td>3</td>
</tr>
<tr>
<td>HTM 421</td>
<td>Food, Wine, and Culture in California</td>
<td>3</td>
</tr>
<tr>
<td>HTM 425</td>
<td>The Business of International Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HTM 560</td>
<td>Hospitality Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 595</td>
<td>Selected Topics in Hotel Administration</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 331</td>
<td>Cross-cultural Creativity in Business</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 430</td>
<td>Import-Export Management and Small Business Operations</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 517</td>
<td>Legal Environment of World Business</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 590</td>
<td>International Environmental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 591</td>
<td>Doing Business in Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>
IBUS 592   Doing Business in Greater China   3
IBUS 593   Doing Business in Europe   3
IBUS 594   Doing Business in Asia-Pacific Countries   3
IBUS 596   Doing Business in Japan   3
IBUS 598   Doing Business in Emerging Markets   3
IBUS 620   Research in International Business and the Global Market   3
IBUS/MGMT 659   Introduction to International Business Negotiation   3
IBUS 676   Social Entrepreneurship in a Global Context   3
IBUS 681   Seminar in Comparative Management   3
IBUS 690   Global Strategic Management   3
MGMT 354   Starting a Small Business   3
MGMT 407   Economics for Managers   3
MGMT 535   Selected Topics in Entrepreneurship   3
MKTG 432   Public Relations   3
MKTG 433   Personal Selling   3
MKTG 436   Retail Management   3
MKTG 441   Business to Business Marketing   3
MKTG 469   Digital Marketing   3
MKTG 644   Services Marketing   3
MKTG 675   Brand Management   3
MKTG 680   International Marketing Management   3
MKTG 688   New Product Management Seminar   3

Electives (9 units)

Choose three upper division College of Business courses with advisor approval. Elective courses must have three different prefixes but can be the same prefixes as courses taken from Lists 1 and 2.

Note: Students transferring from a community college with an AS-T in Business should consult with an advisor to choose appropriate upper division courses to satisfy the general business concentration.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
</tbody>
</table>

Social Sciences: LD 3 D2
Social Sciences: LD 3 D3
Lifelong Learning LD or UD and Self-Development (LLD)
Physical and/or Life Science UD 3 UD-B
Arts and/or Humanities UD 3 UD-C
Social Sciences UD 3 UD-D

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)
Environmental Sustainability (ES)
Global Perspectives (GP)
Social Justice (SJ)

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 213)

**Transfer Student Roadmap (2 Year)**

For students with an AS-T in Business Administration with 12 units in the major satisfied. This roadmap opens in a new tab. (p. 217)

For students with an AS-T in Business Administration with 21 units in the major satisfied. This roadmap opens in a new tab. (p. 219)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Business Administration

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if
minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarter units required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Business Administration: Concentration in General Business Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110 or DS 110</td>
<td>Business Calculus or Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 300GW or DS 660GW</td>
<td>Business Communication for Professionals - GWAR or Communications for Business Analytics - GWAR</td>
<td>3</td>
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<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
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<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations (Upper Division Social Sciences: UD-D Consider SF State Studies Course)</td>
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</tr>
<tr>
<td>Major List 1 (6 units total) – Take One</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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Major List 2 (6 units total) – Take One 6

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ACCT 307</td>
<td>Accounting Information Systems or Information Systems for Management</td>
</tr>
<tr>
<td>BUS 440</td>
<td>Ethics at Work: Business Impacts</td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
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</tbody>
</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Major List 1 (6 units total) – Take One 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major List 2 (6 units total) – Take One 6</td>
</tr>
<tr>
<td>Major Elective (9 units total) – Take One 7</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
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### Eighth Semester

<table>
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<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
</tr>
<tr>
<td>Major Elective (9 units total) – Take Two 7</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<table>
<thead>
<tr>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>15</td>
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</tbody>
</table>

### Total Units

<table>
<thead>
<tr>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-121</td>
</tr>
</tbody>
</table>

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Prepare: MATH 60 and/or MATH 70 are required prerequisites to MATH 110/DS 110 unless you score 50 or higher on ELM or have an ELM exemption.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill GE Area B3 if not already satisfied.
### List 1 (6 units)
Select two of the following with different prefixes:
- DS 312 Data Analysis with Computer Applications (3 units)
- DS 408 Computer Simulation (3 units)
- DS 411 Decision Modeling for Business (3 units)
- DS 601 Applied Management Science (3 units)
- DS 604 Applied Business Forecasting (3 units)
- DS 624 Quality Management (3 units)
- DS 655 Sustainable Supply Chain Management (3 units)
- ECON 400 Economic and Social History of the United States (3 units)
- ECON 450 Health Economics (3 units)
- ECON 474/HIST 474/LABR 474 History of Labor in the United States (3 units)
- ECON 510/LABR 510 Labor Economics (3 units)
- ECON 511/LABR 511 Collective Bargaining (3 units)
- ECON 535/USP 535 Urban Economics (3 units)
- ECON 620 Economic Development (3 units)
- ECON 635/IR 635 Economics of Globalization (3 units)
- ISYS 350 Building Business Applications (3 units)
- ISYS 463 Information Systems Analysis and Design (3 units)
- ISYS 471 E-Commerce Systems (3 units)
- ISYS 565 Managing Enterprise Networks (3 units)
- ISYS 568 Multimedia Business Applications Development (3 units)
- ISYS 569 Information Systems for Business Process Management (3 units)
- ISYS 575 Information Security Management (3 units)
- ISYS 650 Business Intelligence (3 units)

### List 2 (6 units)
Select two of the following with different prefixes:
- BUS 440 Ethics at Work: Business Impacts (3 units)
- BUS 450 Greening of Business (3 units)
- HTM 421 Food, Wine, and Culture in California (3 units)
- HTM 425 The Business of International Tourism (3 units)
- HTM 560 Hospitality Human Resource Management (3 units)
- HTM 595 Selected Topics in Hotel Administration (3 units)
- IBUS 331 Cross-cultural Creativity in Business (3 units)
- IBUS 430 Import-Export Management and Small Business Operations (3 units)
- IBUS 517 Legal Environment of World Business (3 units)
- IBUS 590 International Environmental Analysis (3 units)
- IBUS 591 Doing Business in Latin America (3 units)
- IBUS 592 Doing Business in Greater China (3 units)
- IBUS 593 Doing Business in Europe (3 units)
- IBUS 594 Doing Business in Asia-Pacific Countries (3 units)
- IBUS 596 Doing Business in Japan (3 units)
- IBUS 598 Doing Business in Emerging Markets (3 units)
- IBUS 620 Research in International Business and the Global Market (3 units)
- IBUS 659/MGMT 659 Introduction to International Business Negotiation (3 units)
- IBUS 676 Social Entrepreneurship in a Global Context (3 units)
- IBUS 681 Seminar in Comparative Management (3 units)
- IBUS 690 Global Strategic Management (3 units)
- MGMT 354 Starting a Small Business (3 units)
- MGMT 407 Economics for Managers (3 units)
- MGMT 535 Selected Topics in Entrepreneurship (3 units)
- MKTG 432 Public Relations (3 units)
- MKTG 433 Personal Selling (3 units)
- MKTG 436 Retail Management (3 units)
- MKTG 441 Business to Business Marketing (3 units)
- MKTG 469 Digital Marketing (3 units)
- MKTG 644 Services Marketing (3 units)
- MKTG 675 Brand Management (3 units)
- MKTG 680 International Marketing Management (3 units)
- MKTG 688 New Product Management Seminar (3 units)
Electives must include three upper division courses with different prefixes and advisor approval.
Bachelor of Science in Business Administration: Concentration in General Business – Business Administration Associate Degree for Transfer with 12 Lower Division Units Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Business Administration.

Twelve units in the major (ACCT 100/ACCT 101, ECON 101/ECON 102) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 110 or MATH 110</td>
<td>Calculus with Business Applications or Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met in transfer⁠¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Second Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals – GWAR</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470 or HIST 471</td>
<td>The U.S. Constitution to 1877 or The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration – Upper Division Elective – See Advisor</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Third Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations³</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration List 1 or 2 – Take Two – See Bulletin</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Fourth Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration List 1 or 2 – Take Two – See Bulletin</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

¹ Completion of second year composition is a prerequisite for several Core courses. If not completed prior to transfer, progress in the major will be affected.

² HIST 470 and HIST 471 satisfies Upper Division GE: UD-C and both US History and US/CA Government if not met in transfer.

³ IBUS 330 satisfies Upper Division GE: UD-D.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 6–9 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- Upper Division GE, areas B and C (9 units): Recommended courses for UD-C also satisfy the US History, US Government, and California State and Local Government requirements if not taken before transfer. UD-D met by Major Core course. See notes.
- Students entering the General Business concentration of the major with the AS-T in Business Administration are not required to fulfill SF State Studies and Complementary Studies requirements. (This waiver does not apply to any other concentrations in Business.)

BS in Business Administration: Concentration in General Business major: 45–51 Units

ECON 101/ECON 102, ACCT 100/ACCT 101 met in transfer.

- Prerequisites (0–6 units): DS 110 or MATH 110 and ISYS 263 if not met in transfer
- Core courses for Business majors (30 units)
- Concentration (15 units):
  - List 1 (quantitative) and List 2 (qualitative) (12 units): select two courses from each list, four different prefixes overall
  - Upper division electives (3 units) Note: if lower division requirements in first or second semesters are completed before transfer, consult with a Business Student Services advisor.

University Electives: Zero or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and in the major.
Bachelor of Science in Business Administration: Concentration in General Business – Business Administration Associate Degree for Transfer with 21 Lower Division Units Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Business Administration.

Twenty-one units in the major (ACCT 100/ACCT 101, DS 110 or MATH 110, DS 212, ECON 101/ECON 102, ISYS 263) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations ¹</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met in transfer</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470 or HIST 471</td>
<td>The U.S. Constitution to 1877 ³ or The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration List 1 or 2 – Take Two – See Bulletin</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration List 1 or 2 – Take Two – See Bulletin</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Upper Division Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD—B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration List 1 or 2 – Take Two – See Bulletin</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Upper Division Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ IBUS 330 satisfies Upper Division GE: UD-D.
² Completion of second year composition is a prerequisite for several Core courses. If not completed prior to transfer, progress in the major will be affected.
³ HIST 470 and HIST 471 satisfy Upper Division GE: UD-C and both US History and US/CA Government if not met in transfer.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
University-Wide Requirements: 9-12 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- Upper Division GE, areas B and C (9 units). Recommended courses for UD-C also satisfy the US History, US Government, and California State and Local Government requirements if not taken before transfer. UD-D met by Major Core course. See notes.
- Students entering the General Business concentration of the major with the AS-T in Business Administration are not required to fulfill SF State Studies and Complementary Studies requirements. (This waiver does not apply to any other concentrations in Business.)

BS in Business Administration: Concentration in General Business Major: 48 units

ACCT 100/ACCT 101, DS 110 or MATH 110, DS 212, ECON 101/ECON 102, and ISYS 263 met in transfer.

- Core courses for Business majors (27 units)
  - Concentration (21 units) – Upon advisement, complete the following:
    - List 1 (quantitative) and List 2 (qualitative) (12 units): select two courses from each list, four different prefixes overall
    - Upper division electives (9 units): select three courses, each with a different prefix.

University Electives: Three or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and in the major.
Minor in Business Administration

The Minor in Business Administration draws on business core courses to give a broad, non-specialized exposure to business. It is designed to provide entry-level employment skills for a wide range of jobs and help provide a bridge to the business world for non-business majors.

Business Administration Minor – 24 units

<table>
<thead>
<tr>
<th>Required Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100 Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101 Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>DS 212 Business Statistics ¹</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124 Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160 Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>FIN 350 Business Finance ¹</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330 International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263 Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405 Introduction to Management and Organizational Behavior ¹</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431 Principles of Marketing ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Students who earn a minor in business administration and decide to pursue an MBA or MSBA at SF State may use these courses to meet graduate-level foundation courses, provided they earn a B- or better in the class and have completed the undergraduate course within five years of entering the graduate business program.

² MATH 324 is an equivalent to DS 212 for the purpose of fulfilling this requirement. Prerequisite mathematics capability for MATH 324 may be satisfied by MATH 227. Prerequisite mathematics capability for DS 212 may be satisfied by DS 110, MATH 110, or MATH 226.

Note: The ISYS 263 course requirement may be met by passing the CLEP Exam. Students who pass the waiver exam do not need to take ISYS 263 but must take an additional course (upon advisement) to make up the 3 units.
Decision Sciences

College of Business
Dean: Linda Oubre

Department of Decision Sciences
BUS 310
Phone: (415) 338−2138
Email: ds@sfsu.edu
Chair: Susan Cholette
Undergraduate Advisors: Bollapragada, Cholette, Eng, Hasheminia, Miyaoka, Ozsen, Roeder, Saltzman, Soorapanth, Udayabhanu, Zhao

Major
- Bachelor of Sciences in Business Administration: Concentration in Decision Sciences (p. 222)

Minor
- Minor in Decision Sciences (p. 227)

Bachelor of Science in Business Administration: Concentration in Decision Sciences

Concentration in Decision Sciences
The Decision Sciences concentration provides students with the skills necessary to analyze and solve practical business problems. Concentration courses allow students to acquire competence in decision making through the use of professional business software, such as spreadsheet, forecasting, and simulation packages. By selecting appropriate electives, students can prepare for a career using decision sciences in computer information systems, finance, operations, marketing, design and industry, accounting, international business, general management, or other areas within industry or government.

All concentration courses must be taken on a letter-grade basis. A student must have a minimum grade point average of 2.0 across all concentration courses.

Bachelor of Science in Business Administration: Concentration in Decision Sciences — 60 units

Prerequisites to Core Courses
In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 110</td>
<td>Business Calculus</td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems (or a passing score on the ISYS 263 CLEP Exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions.

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
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<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.

Required Courses (12 units)
Select 12 credit hours from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 312</td>
<td>Data Analysis with Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>DS 601</td>
<td>Applied Management Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 604</td>
<td>Applied Business Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>DS 612</td>
<td>Data Mining with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>DS 624</td>
<td>Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>DS 655</td>
<td>Sustainable Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved Electives (9 units)
Note: Decision sciences students are advised to take DS 660GW Communications for Business Analytics - GWAR as one of the approved electives; it can substitute for BUS 300GW Business Communication for Professionals - GWAR for the Decision Sciences concentration as it satisfies the University GWAR requirement.
### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

#### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Business Administration: Concentration in Decision Sciences Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)(^1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)(^2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110 or DS 110</td>
<td>Business Calculus or Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)(^3)</td>
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<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)(^3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 307 or ISYS 363</td>
<td>Accounting Information Systems or Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration (12 Units Total)(^4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Approved Elective (9 Units Total)(^5)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
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</table>
### Sixth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration (12 Units Total)</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Major Approved Elective (9 Units Total)</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
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</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration (12 Units Total)</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
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</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration (12 Units Total)</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Major Approved Elective (9 Units Total)</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Concentration Courses**
   - DS 312 Data Analysis with Computer Applications (3 units)
   - DS 408 Computer Simulation (3 units)
   - DS 601 Applied Management Science (3 units)
   - DS 604 Applied Business Forecasting (3 units)
   - DS 612 Data Mining with Business Applications (3 units)
   - DS 624 Quality Management (3 units)
   - DS 655 Sustainable Supply Chain Management (3 units)
5. **Approved Electives**
   - Decision sciences students are advised to take DS 660GW Communications for Business Analytics - GWAR as one of the approved electives; it can substitute for BUS 300GW Business Communication for Professionals - GWAR for the Decision Sciences concentration as it satisfies the University GWAR requirement.
Minor in Decision Sciences

Specialized Business Minors

These programs are designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, they can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for Business majors wishing expertise in a second field.

Minor in Decision Sciences

Decision Sciences Minor — 18 units

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Advisor approved equivalents may substitute for DS 212 and ISYS 263.

Elective Courses (9 units)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 312</td>
<td>Data Analysis with Computer Applications</td>
</tr>
<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
</tr>
<tr>
<td>DS 601</td>
<td>Applied Management Science</td>
</tr>
<tr>
<td>DS 604</td>
<td>Applied Business Forecasting</td>
</tr>
<tr>
<td>DS 612</td>
<td>Data Mining with Business Applications</td>
</tr>
<tr>
<td>DS 624</td>
<td>Quality Management</td>
</tr>
<tr>
<td>DS 655</td>
<td>Sustainable Supply Chain Management</td>
</tr>
<tr>
<td>DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
</tr>
</tbody>
</table>

Additional Course (3 units)

Select one additional courses in consultation with a Decision Sciences advisor.

Note: No elective may be a lower division course. All electives must be taken for a letter grade.
College of Business
Dean: Linda Oubre

Department of Economics
Health and Social Sciences Building, Room 142
Phone: (415) 338-1839
Website: http://cob.sfsu.edu/economics/

Chair: Don Mar
Graduate Coordinator: Lisa Takeyama

Program Scope
The Bachelor of Arts in Economics provides students with a foundation in economic theory while allowing them to apply what they have learned in real-world settings. The program fully exposes students to the primary methods of economic inquiry and analysis. Courses in the program call on students to use both quantitative and qualitative reasoning to analyze and explain economic events and problems. Students also develop practical skills in collecting and statistically analyzing economic data to reach conclusions about economic issues. The undergraduate program in economics provides an excellent preparation for students planning to enter careers in business, government, and in non-profit organizations. It can also serve to fully prepare students for advanced graduate and professional studies in economics, business, public policy, urban and regional planning, law, and other related fields.

The Master of Arts in Economics allows students to pursue advanced study in economics and focuses on theoretical foundations and real-world applications. The program requires students to develop skills in the mathematical modeling of economic theory and statistical analysis of economic data, as well as in the writing and communicating of economic ideas. The M.A. program provides excellent advanced training for students wishing to obtain professional positions as researchers or administrators in private businesses, governmental agencies, or non-profit organizations. The program also offers a solid foundation for students interested in continuing their graduate studies in Ph.D. programs elsewhere.

Career Outlook
Both the undergraduate and graduate programs prepare students for a wide variety of careers in business, government, and non-profit organizations. Practical orientation and a strong emphasis on quantitative reasoning allow graduates of these programs to move into interesting and promising careers in a number of fields. Undergraduate students majoring in economics, particularly those who have supplemented their program with additional coursework in accounting, finance, and computer programming, are very attractive job candidates. Graduate students in the master’s program develop advanced theoretical, statistical, and data analytic skills, which allow them to compete successfully for more advanced positions. Economics majors from SF State have recently been placed in entry-level positions in business management, marketing, financial services, research consulting firms, public policy analysis, teaching, and many other fields. The undergraduate major also provides excellent preparation for advanced graduate and professional studies in economics and related disciplines. SF State graduates of the M.A. program have recently been placed in advanced positions with public utilities, economics consulting firms, the research divisions of large companies, and local and state governmental agencies, while other SF State M.A. graduates have been admitted to top Ph.D. granting institutions.

Professors
Chattopadhyay, Chaudhuri

Associate Professors
Bar, Chernomaz, Janko, King, Potepan, Takeyama

Assistant Professors
Kakar, Modrek

Majors
• Bachelor of Arts in Economics (p. 228)

Minors
• Minor in Economics (p. 235)

Masters
• Master of Arts in Economics (p. 235)

Bachelor of Arts in Economics
Declaring the Major and Undergraduate Advising
Students can declare economics as a major at the economics department office in HSS 142. The department requires that all majors meet with an advisor each spring. Advisors counsel students on the selection of economics courses, as well as GE requirements and other courses in the University. Students who do not see an advisor will not be able to register for the fall semester.

• Majors must take the core courses for a letter grade and earn a minimum grade of C in each. (CR/NC grading is not allowed for core courses.)
• ECON 690GW is the capstone course and must be taken in the senior year.

Economics (B.A.) – 43 Units
Core Courses (25 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 311</td>
<td>Statistical Methods and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 312</td>
<td>Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 690GW</td>
<td>Senior Seminar: Economic Inquiry and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper Division Electives (18 Units)
Economics majors are required to take six upper division elective courses in economics. There are over 20 elective courses, including some cross-listed courses with other programs, offered each year on such subjects as money and banking, international economics, labor economics, industrial organization, experimental economics and game theory, health
economics, public finance, law and economics, economic history, urban economics, environmental economics, and economic development.

Upon prior advisement, a maximum of two courses may be taken from another department in a related discipline.

Complementary Studies
Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Alternatively, students in the Economics major can meet with a major advisor to determine which courses will satisfy the complementary studies requirement. Consult with your major advisor for assistance.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
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<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
</tbody>
</table>

Social Sciences  UD  3  UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3

Environmental Sustainability (ES)  LD or UD  3

Global Perspectives (GP)  LD or UD  3

Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

### First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 231)

### Transfer Student Roadmap (2 Year)

For Students with an AA-T in Economics. This roadmap opens in a new tab. (p. 233)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Economics

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:
· How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
· Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
· How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   · a course in U.S. History
   · a course in U.S. & California Government
   · a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

   · Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

   · Complete 60 or more transferable semester units or 90 or more quarter units
   · Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
   · Be in good standing at the last college or university attended
   · Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
     a. One course in oral communication (same as CSU GE area A1)
     b. One course in written composition (same as CSU GE area A2)
     c. One course in critical thinking (same as CSU GE area A3)
     d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
   
   · The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Economics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 43

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 311</td>
<td>Statistical Methods and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ECON 312</td>
<td>Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Electives</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Complementary Studies or SF State Studies or University Elective – Take Two \(^4\) | 6
---|---
Eighth Semester | Units | 15
---|---|---
ECON 690GW | Senior Seminar: Economic Inquiry and Analysis - GWAR | 3
Major Upper Division Electives \(^5\) | 6
Complementary Studies or SF State Studies or University Elective – Take Two \(^4\) | Units | 5
---|---|---
Total Units | 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies**
   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)
   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Alternatively, students in the Economics major can meet with a major advisor to determine which courses will satisfy the complementary studies requirement. Consult with your major advisor for assistance.
   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

5. **Upper Division Electives (18 Units)**
   Economics majors are required to take six upper division elective courses in economics. There are over 20 elective courses, including some cross-listed courses with other programs, offered each year on such subjects as money and banking, international economics, labor economics, industrial organization, experimental economics and game theory, health economics, public finance, law and economics, economic history, urban economics, environmental economics, and economic development.
   Upon prior advisement, a maximum of two courses may be taken from another department in a related discipline.
Bachelor of Arts in Economics – ECON Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Economics. At least six units in the major (ECON 101, ECON 102) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 311</td>
<td>Statistical Methods and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 is already satisfied</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 312</td>
<td>Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 690GW</td>
<td>Senior Seminar: Economic Inquiry and Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Three</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper Division GE, areas B, C and D (9 units)
- Students entering this major with the AA-T in Economics are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Economics Major: 33–37 Units

ECON 101, ECON 102 met in transfer; MATH 226 may have been met in transfer.
• Major Core (15–19 units) - includes Culminating Experience/GWAR course
• Major Electives (18 units)

**University Electives: Six or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Minor in Economics

Economics is highly complementary with a number of other disciplines and some students may choose to minor in economics while pursuing a major in another field. Students often decide to minor in economics after having already taken several economics courses and realizing that a few more courses will satisfy the minor requirements.

- Minors must earn a minimum grade of C in each core course (CR/NC grading is permitted for core courses).

Economics Minor – 22 units

Required Courses (13 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis (formerly ECON 100)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 units)

Three courses selected from upper division elective economics courses. ECON 301 or ECON 302 may be used as an elective if not used as a required course. ECON 312 and ECON courses 400 and above are considered to be upper division electives.

Master of Arts in Economics

http://grad.sfsu.edu/program-deadline-dom

Graduate Coordinator: Takeyama

Admission to Program

For admission to the graduate program in economics, a student must meet, at a minimum, the general University requirements as stated in this Bulletin. To qualify for classified status, a student must satisfy the following criteria:

- Earn a 3.0 grade point average in an undergraduate major in economics (or equivalent);
- Complete courses in intermediate macro and micro theory (ECON 301 and ECON 302 or equivalents) with grades of B or better;
- Complete a semester of calculus (MATH 226 or equivalent) with a grade of B or better;
- Complete a semester-length course in Statistics (ECON 311 or equivalent) and in Econometrics (ECON 312 or equivalent) with a grade of B or better in each.

Students who do not have B grades in all of the above four courses, or who did not major in economics but earned an overall grade point average of 3.0 or better, may be admitted conditionally. Students admitted conditionally cannot apply courses taken to satisfy the program prerequisites toward their graduate program.

Students applying to the graduate program must submit the following materials to the department's graduate coordinator and to the Division of Graduate Studies, as indicated below.

- Transcripts from all colleges and universities attended (submit official records to Graduate Studies and an additional copy (may be unofficial) to the economics department graduate coordinator).

- Graduate Record Examination (GRE) scores for the general test or GMAT scores (submit only to Graduate Studies).
- Two or more letters of recommendation, preferably from professors the applicant has taken courses with or worked with in some capacity (submit only to the economics department graduate coordinator).

The deadlines for submission of the above materials to the Division of Graduate Studies and the department's graduate coordinator are determined by the University. These deadlines are available at grad.sfsu.edu/program-deadline-dom.

Written English Proficiency Requirements

The University requires that graduate students must demonstrate both initial English proficiency (level one) upon entrance to graduate study and an advanced English proficiency (level two) prior to graduating.

Level One

Prior to admission, students must satisfy at least one of the following an undergraduate degree from an institution located in a country in which the native language is English; a score of at least 4.0/6.0 on the GRE or GMAT Analytic Writing Assessment; a minimum score of 24/30 on the Writing section of the Internet-based test (IBT) TOEFL; or a score of at least 6.5/9.0 on the IELTS writing test, or a concordant score on the Pearson Test of English.

Students not meeting this requirement may be admitted conditionally upon completion of an appropriate English writing class during their first semester

Level Two

Demonstration of advanced level proficiency is an integral part of the Written Comprehensive Exam.

Advancement to Candidacy

Besides meeting all general requirements for advancement to candidacy, students must earn a minimum of a B in the following courses and earn an overall minimum of 3.0 grade point average in all courses combined. No course taken toward degree completion may be taken on a CR/NC basis.

Economics (M.A.) – 30 units

Core Requirements (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 701</td>
<td>Seminar: Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 702</td>
<td>Seminar: Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 715</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 731</td>
<td>Econometric Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 825</td>
<td>Applied Time Series Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 830</td>
<td>Advanced Econometric Methods and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6-12 units)

A maximum of two courses may be taken outside the economics department in an applied field or interdisciplinary study upon advisement. No more than two electives may be pure undergraduate courses, and at least one elective must be a pure graduate course. All electives require prior approval from an advisor.

Culminating Experience (0-6 units)

Students may choose either the Written Comprehensive Examination or the Master's Thesis and Oral Defense.
Written Comprehensive Examination
A three-hour comprehensive written examination is required of all candidates not opting for the Master’s Thesis. Examinations are conducted during the spring semester. No student is permitted to take the examination until they have completed, by the end of the spring semester during which the exam is taken, 24 units of the Advancement to Candidacy (ATC) with a B (3.0) average. ECON 701, ECON 702, ECON 715, and ECON 731 must be included in these 24 units. Students who choose the Written Comprehensive Exam for their culminating experience must also enroll in ECON 896EXM Culminating Experience Examination (0 units).

ECON 896EXM Culminating Experience Examination 0.3

Students Opting for Master’s Thesis and Oral Defense
Six units of graduate economics electives in addition to Thesis and Oral Defense.

ECON 898 Master’s Thesis 6
Financial Information

Major
- Bachelor of Science in Business Administration: Concentration in Finance (p. 237)
- Bachelor of Science in Business Administration: Concentration in Finance with (p. 242) Certificate in (p. 242) Commercial Real Estate (p. 242)

Minor
- Minor in Finance (p. 247)

Certificate
- Certificate in Commercial Real Estate for Finance Majors (p. 293)

Bachelor of Science in Business Administration: Concentration in Finance

Concentration in Finance
The Finance concentration teaches students to recognize, understand, and attain the skills necessary to be successful in the world of finance. It focuses on the financial decisions made in every organization, which include investment, decisions in purchasing and selling real and financial assets, raising cash to fund these investments, and managing the risk of its assets and investments. Other operational decisions include implementing routine day-to-day procedures to manage all financial aspects of the organization and decisions regarding changes in the mix of its services and products. Although a financial manager specializes in these decisions, managers from across the organization also contribute.

Four sets of skills are essential to financial decision-making: First, an understanding of the environment within which decisions are made, including both the internal structure of the organization and the nature of external capital and financial markets; second, familiarity with the organization's information system, including accounting, financial, and human resources; third, analysis of available financial data to understand the likely impact of alternative decisions and their level of uncertainty; finally, understanding the interrelationships between financial decisions and decisions made in other parts of the organization, such as marketing, production, and IT.

All concentration courses must be taken on a letter-grade basis. Students must maintain an overall minimum grade point average of 2.0 across the seven concentration courses.

Bachelor of Science in Business Administration:
Concentration in Finance — 60 units
Prerequisites to Core Courses
In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 110</td>
<td>Business Calculus</td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems (or a passing score on the ISYS 263 CLEP Exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions.

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exemption to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar in Business and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management 1</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.
**Finance Concentration**

**Required Courses (15 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 303</td>
<td>Accounting for Financial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or FIN 357</td>
<td>Financial Statement and Data Analysis</td>
<td></td>
</tr>
<tr>
<td>FIN 351</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 353</td>
<td>Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 536</td>
<td>International Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (6 units)**

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>DS 411</td>
<td>Decision Modeling for Business</td>
<td>3</td>
</tr>
<tr>
<td>DS 601</td>
<td>Applied Management Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 604</td>
<td>Applied Business Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>FIN 365</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>FIN 370</td>
<td>Fundamentals of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>FIN 371</td>
<td>Commercial Real Estate Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 372</td>
<td>Commercial Leasing and Development</td>
<td>3</td>
</tr>
<tr>
<td>FIN/PLSI/IR 435</td>
<td>Politics of Global Finance and Crisis</td>
<td>4</td>
</tr>
<tr>
<td>FIN 653</td>
<td>Seminar in Bank Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 655</td>
<td>Alternative Investment</td>
<td>3</td>
</tr>
<tr>
<td>FIN 656</td>
<td>Student Managed Investment Fund</td>
<td>3</td>
</tr>
<tr>
<td>FIN 658</td>
<td>Financial Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 659</td>
<td>Special Topics in Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 569</td>
<td>Information Systems for Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 650</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 430</td>
<td>Introduction to Entrepreneurship I</td>
<td>3</td>
</tr>
</tbody>
</table>

Or another appropriate class may be selected with prior written consent of advisor.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
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<tr>
<td>Written English</td>
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<td>Critical Thinking</td>
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<td>Communication II</td>
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<td>Physical Science</td>
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<td>Life Science</td>
<td>LD</td>
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<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
</tbody>
</table>

**Humanities:**

| Literature                          | LD           | 3     | C3               |
| Social Sciences                     |              |      |                  |
| Social Sciences: US History         |              |      |                  |
| Social Sciences: US & CA Government |              |      |                  |
| Survival Learning                   |              |      |                  |
| Lifelong Learning Fund and Self-Development (LLD) | | |
|            |              |      |                  |
| Physical and/or Life Science        | UD           | 3     | UD-B             |
| Arts and/or Humanities              | UD           | 3     | UD-C             |
| Social Sciences                     | UD           | 3     | UD-D             |

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3     |
| Environmental Sustainability (ES)          | LD or UD  | 3     |
| Global Perspectives (GP)                   | LD or UD  | 3     |
| Social Justice (SJ)                        | LD or UD  | 3     |

**Notes:**

- LD = Lower Division; UD = Upper Division.

**First Time Student Roadmap (4 Year)**

This 2017–2018 roadmap (p. 240) opens in a new tab.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine.
• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
Bachelor of Science in Business Administration: Concentration in Finance Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
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<tr>
<td>Second Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110 or DS 110</td>
<td>Business Calculus 3 or Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Third Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<td><strong>15-16</strong></td>
</tr>
<tr>
<td>Fourth Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
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<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
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<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
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<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
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</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15-16</strong></td>
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<tr>
<td>Fifth Semester</td>
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<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
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</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
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</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td><strong>Units</strong></td>
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### Sixth Semester

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 303 or FIN 357</td>
<td>Accounting for Financial Analysis or Financial Statement and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 351</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 307 or ISYS 363</td>
<td>Accounting Information Systems or Information Systems for Management</td>
<td>3</td>
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<tr>
<td>Major Elective (6 Units Total) – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
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</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FIN 353</td>
<td>Financial Institutions</td>
<td>3</td>
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<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td></td>
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### Eighth Semester

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<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
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<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 536</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (6 Units Total) – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Total Units**: **120-122**

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of 105 in the second semester; multilingual students may be advised into alternative English courses.
3. MATH 60 and/or MATH 70 are required prerequisites to MATH 110/DS 110 unless you score 50 or higher on ELM or have an ELM exemption.
4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
5. **Major Electives**
   - DS 408 Computer Simulation (3 units)
   - DS 411 Decision Modeling for Business (3 units)
   - DS 601 Applied Management Science (3 units)
   - DS 604 Applied Business Forecasting (3 units)
   - FIN 365 Real Estate Principles (3 units)
   - FIN 370 Fundamentals of Real Estate (3 units)
   - FIN 371 Commercial Real Estate Financial Management (3 units)
   - FIN 372 Commercial Leasing and Development (3 units)
   - IR 435 Politics of Global Finance and Crisis (4 units)
   - FIN 653 Seminar in Bank Management (3 units)
   - FIN 655 Alternative Investment (3 units)
   - FIN 656 Student Managed Investment Fund (3 units)
   - FIN 658 Financial Risk Management (3 units)
   - FIN 659 Special Topics in Finance (3 units)
   - ISYS 464 Managing Enterprise Data (3 units)
   - ISYS 569 Information Systems for Business Process Management (3 units)
   - ISYS 650 Business Intelligence (3 units)
   - MGMT 430 Introduction to Entrepreneurship I (3 units)
Bachelor of Science in Business Administration: Concentration in Finance with Certificate in Commercial Real Estate

Concentration in Finance
The Finance concentration teaches students to recognize, understand, and attain the skills necessary to be successful in the world of finance. It focuses on the financial decisions made in every organization, which include investment, decisions in purchasing and selling real and financial assets, raising cash to fund these investments, and managing the risk of its assets and investments. Other operational decisions include implementing routine day-to-day procedures to manage all financial aspects of the organization and decisions regarding changes in the mix of its services and products. Although a financial manager specializes in these decisions, managers from across the organization also contribute.

Four sets of skills are essential to financial decision-making: First, an understanding of the environment within which decisions are made, including both the internal structure of the organization and the nature of external capital and financial markets; second, familiarity with the organization's information system, including accounting, financial, and human resources; third, analysis of available financial data to understand the likely impact of alternative decisions and their level of uncertainty; finally, understanding the interrelationships between financial decisions and decisions made in other parts of the organization, such as marketing, production, and IT.

All concentration courses must be taken on a letter-grade basis. Students must maintain an overall minimum grade point average of 2.0 across the seven concentration courses.

Commercial Real Estate Certificate
The Building Owners and Managers Association, San Francisco Foundation (BOMA SF Foundation) has partnered with SF State, providing support for several courses in commercial real estate. Students earn a Bachelor of Science degree in Business Administration with a Concentration in Finance and a Certificate in Commercial Real Estate.

Career Opportunities
According to BOMA SF Foundation, "One of the most demanding issues facing the commercial real estate industry today is how to replace a large aging workforce soon to retire." Jobs with great compensation and opportunities for career advancement are available in the commercial real estate industry, including property management, facilities management, asset and portfolio managers, real estate leasing and brokerage, and building engineering.

Bachelor of Science in Business Administration: Concentration in Finance with Certificate in Commercial Real Estate – 60 units

Prerequisites to Core Courses
In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
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</table>

Bachelor of Science in Business Administration: Concentration in Finance

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
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<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
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<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
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<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
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<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management 1</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.

Finance Concentration

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 303</td>
<td>Accounting for Financial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or FIN 357</td>
<td>Financial Statement and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 351</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 353</td>
<td>Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 536</td>
<td>International Finance</td>
<td>3</td>
</tr>
</tbody>
</table>
Electives (6 units)
Satisfied by the completion of the Commercial Real Estate Certificate.

Commercial Real Estate Certificate — 12 Units
To earn a certificate in Commercial Real Estate (CRE), students must satisfy the following three requirements:

1. Complete the following four courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 365</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>FIN 370</td>
<td>Fundamentals of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>FIN 371</td>
<td>Commercial Real Estate Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 372</td>
<td>Commercial Leasing and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Earn an overall GPA of 2.0 across these four courses.
3. Successfully complete the finance major.

Commercial Real Estate Certificate Specifics
Finance majors must complete the requirements of their B.S. degree in Business Administration with a Concentration in Finance, plus a minimum of two additional courses.

- Five required finance concentration courses: FIN 303, FIN 351, FIN 353, FIN 355, and FIN 536.
- Two required finance elective courses from: FIN 365, FIN 370, FIN 371, or FIN 372.
- Two required real estate emphasis courses from: FIN 365, FIN 370, FIN 371, or FIN 372.

FIN 370, FIN 371, and FIN 372 are 100% funded by the Building Owners & Managers Association San Francisco Foundation (BOMA SF Foundation). The certificate will be branded with BOMA SF Foundation’s sponsorship.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
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<tr>
<td>Life Science</td>
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<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History:</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>

Social Sciences: LD
US & CA Government
Lifelong Learning LD or UD and Self-Development (LLD)
Physical and/or Life Science UD
Arts and/or Humanities UD
Social Sciences UD

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)
This 2017–2018 roadmap (p. 245) opens in a new tab.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://wwwassist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;
Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Business Administration: Concentration in Finance with Certificate in Commercial Real Estate Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>Business Calculus ³ or Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>or DS 110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td></td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴</td>
<td>3-4</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
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<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
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<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
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<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴</td>
<td>3-4</td>
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<tr>
<td>SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<td></td>
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<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
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<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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### Sixth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 307 or ISYS 363</td>
<td>Accounting Information Systems or Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 303</td>
<td>Accounting for Financial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 351</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 365</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
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</table>

**Units: 15**

### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
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<tbody>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 353</td>
<td>Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 370</td>
<td>Fundamentals of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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**Units: 15**

### Eighth Semester

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
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<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
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</tr>
<tr>
<td>FIN 371</td>
<td>Commercial Real Estate Financial Management</td>
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</tr>
<tr>
<td>FIN 372</td>
<td>Commercial Leasing and Development</td>
<td>3</td>
</tr>
<tr>
<td>FIN 536</td>
<td>International Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units: 15**

**Total Units: 120-122**

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. MATH 60 and/or MATH 70 are required prerequisites to MATH 110/DS 110 unless you score 50 or higher on ELM or have an ELM exemption.
4. Take a class with a combined laboratory or a separate lab to fulfill B3 if not already satisfied.
Minor in Finance

Specialized Business Minors

These programs are designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, they can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for business majors wishing expertise in a second field.

Minor in Finance

The Minor in Finance has been temporarily suspended for 2015–2016. Students who have already declared the minor may continue their planned course of study, but no new minors will be accepted at this time.

Finance Minor – 24 units

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 300</td>
<td>Accounting and Finance Reporting (^1)</td>
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</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 305</td>
<td>Economic Analysis for Non-Majors (^2)</td>
<td>3</td>
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<tr>
<td>FIN 350</td>
<td>Business Finance</td>
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</table>

Elective Courses (9 units)

Units selected from the following with approval of a finance advisor.

Select three of the following with approval of a finance advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 351</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 353</td>
<td>Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 536</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 663</td>
<td>Seminar in Bank Management</td>
<td>3</td>
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</tbody>
</table>

\(^1\) ACCT 100 and ACCT 101 may be substituted for ACCT 300, on advisement.

\(^2\) ECON 101 and ECON 102 (formerly ECON 100) may be substituted for ECON 305, on advisement.

Note: All electives must be taken for a letter grade.
Hospitality and Tourism Management

College of Business
Dean: Linda Oubre

Department of Hospitality and Tourism Management
Business Building, Room 336
(415) 338–1023
Email: hmp@sfedu.edu
Chair: Andrew Walls
Undergraduate Advisors: Aday, Ergul, Frens, Johnson, Roe, Sim, Walls, Yang

Program Scope
The mission of the Hospitality and Tourism Management department is to be a student-centered academic and professional environment dedicated to educating exceptional hospitality and tourism industry business leaders through experiential and personalized learning.

The program is designed to provide students with a core of business education and professional hospitality and tourism management knowledge. Students can choose to focus on an elective emphasis, including: hotel operations management; food and beverage management; conventions, meetings and event management, or tourism management. The department is committed to maximizing student exposure to industry leaders, career opportunities and student experiences involving notable hospitality companies. The Hospitality and Tourism Management department features the on-campus Vista Room, a student-run restaurant which serves as an experiential learning laboratory.

Career Outlook
The curriculum combines strengths in management with hands-on hospitality experience and internship opportunities in the hospitality industry. Completion of the core and elective courses provides students with a theoretical business background and professional knowledge to attain a top-level management positions in the hospitality/tourism industry.

Certificate in Hospitality and Tourism Management
For more information contact the program director in the College of Extended Learning.

Award of the Certificate
Upon completion of the program, the College of Extended Learning is responsible for authorizing the issuance of the certificate on behalf of the Department of Hospitality and Tourism Management and in the name of San Francisco State University.

Professors
Johnson, Sim

Associate Professors
Ergul, Frens, Walls

Assistant Professors
Aday, Roe, Yang

Major
- Bachelor of Science in Hospitality and Tourism Management (p. 248)

Minor
- Minor in Hospitality and Tourism Management (p. 253)

Bachelor of Science in Hospitality and Tourism Management (B.S.) – 66 units

Core Courses (54 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>HTM 110</td>
<td>Introduction to Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 120</td>
<td>Legal Aspects of Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 300GW</td>
<td>Hospitality Tourism Management Business Communication - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>HTM 357</td>
<td>Food Systems in the Hospitality Environment</td>
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</tr>
<tr>
<td>HTM 424</td>
<td>Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 457</td>
<td>Restaurant Operations</td>
<td>3</td>
</tr>
<tr>
<td>HTM 458</td>
<td>Hospitality Tourism Management Revenue and Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>HTM 515</td>
<td>Hospitality and Tourism Management Internship</td>
<td>3</td>
</tr>
<tr>
<td>HTM 531</td>
<td>Hospitality Services Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 560</td>
<td>Hospitality Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 561</td>
<td>Hotel Operation Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 590</td>
<td>Integrated Seminar in Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Hospitality and Tourism Management (2017-2018)
MKTG 431 Principles of Marketing 3

**Guided Electives (12 units)**

Choose four of the guided elective courses from the list of courses below. Students wishing to minor in business administration are encouraged to take IBUS 330 to fulfill their minor requirement.

HTM 324 Historical and Contemporary Aspects of Food, Beverage, and Culture in America 3
HTM/CFS 351 Asian Food, Culture, and Hospitality 3
HTM 364 Hospitality and Tourism Management Information Systems 3
HTM 400 Wine Appreciation 3
HTM 421 Food, Wine, and Culture in California 3
HTM 425 The Business of International Tourism 3
HTM 557 Restaurant and Catering Management 3
HTM 562 Advanced Studies in Global Hotel Operations Management 3
HTM 576 Meeting Planning and Convention/Event Management I 3
HTM 577 Meeting Planning and Convention/Event Management II 3
HTM 578 Hospitality and Tourism Management Sales and Marketing 3
IBUS 330 International Business and Multicultural Relations 3

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
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</tbody>
</table>

Physical and/or Life Science  | UD | 3 | UD-B |
Arts and/or Humanities        | UD | 3 | UD-C |
Social Sciences                | UD | 3 | UD-D |

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  | LD or UD | 3 |
Environmental Sustainability (ES)          | LD or UD | 3 |
Global Perspectives (GP)                   | LD or UD | 3 |
Social Justice (S-J)                       | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

**First Time Student Roadmap (4 Year)**

This (p. 251) 2017~2018 roadmap opens in a new tab.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education
units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - a. One course in oral communication (same as CSU GE area A1)
  - b. One course in written composition (same as CSU GE area A2)
  - c. One course in critical thinking (same as CSU GE area A3)
  - d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Science in Hospitality and Tourism Management Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 63

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110 or DS 110</td>
<td>Business Calculus or Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
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</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
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<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>HTM 110</td>
<td>Introduction to Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (1 of 4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
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<tr>
<td>HTM 120</td>
<td>Legal Aspects of Hospitality and Tourism Management</td>
<td>3</td>
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<tr>
<td>HTM 300GW</td>
<td>Hospitality Tourism Management Business Communication - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>HTM 357</td>
<td>Food Systems in the Hospitality Environment</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (2 of 4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>HTM 457</td>
<td>Restaurant Operations</td>
<td>3</td>
</tr>
<tr>
<td>HTM 458</td>
<td>Hospitality Tourism Management Revenue and Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>HTM 561</td>
<td>Hotel Operation Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (3 of 4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>HTM 351</td>
<td>Asian Food, Culture, and Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HTM 424</td>
<td>Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 531</td>
<td>Hospitality Services Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 560</td>
<td>Hospitality Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Eighth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>HTM 515</td>
<td>Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 590</td>
<td>Integrated Seminar in Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (4 of 4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD--B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD--D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Guided Electives**
   Select four courses from below. See Department for advisement based on your area of interest.
   - HTM 324 Historical and Contemporary Aspects of Food, Beverage, and Culture in America (3 units)
   - HTM 351/CFS 351 Asian Food, Culture, and Hospitality (3 units)
   - HTM 364 Hospitality and Tourism Management Information Systems (3 units)
   - HTM 400 Wine Appreciation (3 units)
   - HTM 421 Food, Wine, and Culture in California (3 units)
   - HTM 425 The Business of International Tourism (3 units)
   - HTM 557 Restaurant and Catering Management (3 units)
   - HTM 562 Advanced Studies in Global Hotel Operations Management (3 units)
   - HTM 576 Meeting Planning and Convention/Event Management I (3 units)
   - HTM 577 Meeting Planning and Convention/Event Management II (3 units)
   - HTM 578 Hospitality and Tourism Management Sales and Marketing (3 units)
   - IBUS 330 International Business and Multicultural Relations (3 units)
Minor in Hospitality and Tourism Management

The Hospitality and Tourism Management minor is designed to provide undergraduates with a focused exposure to hospitality management. The program can provide non-hospitality management majors with the professional and technical skills in hospitality management needed for entry into employment or serve as an alternative to a double major for business majors wishing expertise in a second field.

Hospitality and Tourism Management
Minor — 24 units

Required Courses (18 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 300</td>
<td>Accounting and Finance Reporting (ACCT 100 and ACCT 101 may be substituted for ACCT 300)</td>
<td>3</td>
</tr>
<tr>
<td>HTM 110</td>
<td>Introduction to Hospitality and Tourism Management</td>
<td>3</td>
</tr>
<tr>
<td>HTM 357</td>
<td>Food Systems in the Hospitality Environment</td>
<td>3</td>
</tr>
<tr>
<td>HTM 560</td>
<td>Hospitality Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (6 units)

Two HTM courses from the core or emphasis areas, with the approval of a hospitality and tourism management advisor.
Information Systems
College of Business
Dean: Linda Oubre

Department of Information Systems
BUS 310
Phone: (415) 338-2138
Email: is@sfsu.edu
Chair: David Chao
Undergraduate Advisors: Beckman, Chao, Jin, Mak, Shahrasbi, Verma

Major
• Bachelor of Science in Business Administration: Concentration in Information Systems (p. 254)

Minor
• Minor in Information Systems (p. 259)

Certificate
• Certificate in Information Technology Auditing (p. 293)

Bachelor of Science in Business Administration: Concentration in Information Systems

Concentration in Information Systems
The Information Systems concentration prepares students for multiple careers that require an aptitude for analytical thinking and a strong working competency in information systems. It is designed to produce a person with technical and managerial skills in business application development, project management, application analysis and design, data management, and network and security management. Graduates qualify for and are productive in careers that include technology/business analyst, programmer/analyst, database designer/analyst/administrator, network administrator, and help desk/technical support specialist. The concentration emphasizes technical knowledge of information system components and infrastructure; application and development skills; high-level competencies in applying information systems analysis and systems design strategies and techniques; understanding the information needs and delivery systems within business organizations; understanding the business/organizational context of information systems; communications and human relations skills for working with and managing people and projects in virtual teams; and education and desire for lifelong learning and professional and personal development.

All concentration courses must be taken on a letter grade basis with the exception of courses offered only on a CR/NC basis. A student must have a minimum grade point average of 2.0 in all concentration courses to graduate.

A maximum of two courses (6 units) in the information systems concentration may be courses not listed in the bulletin for the concentration including courses from other disciplines at SF State and courses from other AACSB accredited schools of business or institutions of equal caliber. All such courses must be approved in advance by an Information Systems advisor.

Bachelor of Science in Business Administration: Concentration in Information Systems – 60 units

Prerequisites to Core Courses
In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 110</td>
<td>Business Calculus</td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems (or a passing score on the ISYS 263 CLEP Exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300G</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management 1</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.
Bachelor of Science in Business Administration: Concentration in Information Systems

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 350</td>
<td>Building Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 463</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 565</td>
<td>Managing Enterprise Networks</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 663</td>
<td>Information Technology Project Management</td>
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</table>

Electives (6 units)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 471</td>
<td>E-Commerce Systems</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 475</td>
<td>Building Web Applications with Open Source Software</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 512</td>
<td>Business Application Design and Development with .NET</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 556</td>
<td>Building Mobile Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 557</td>
<td>Managing Open Source</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 567</td>
<td>Information Systems Internship</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 568</td>
<td>Multimedia Business Applications Development</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 569</td>
<td>Information Systems for Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 575</td>
<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 650</td>
<td>Business Intelligence</td>
<td>3</td>
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</tbody>
</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
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<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 257)

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this
certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Business Administration: Concentration in Information Systems Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>or DS 110</td>
<td>or Calculus with Business Applications</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 307</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or ISYS 363</td>
<td>or Information Systems for Management</td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 350</td>
<td>Building Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 463</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 565</td>
<td>Managing Enterprise Networks</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 663</td>
<td>Information Technology Project Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective – Take One 4</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective – Take One 4</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

#### Total Units

| Units | 15 |

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Major Concentration Electives**
   - ISYS 471 E-Commerce Systems (3 units)
   - ISYS 475 Building Web Applications with Open Source Software (3 units)
   - ISYS 512 Business Application Design and Development with .NET (3 units)
   - ISYS 556 Building Mobile Business Applications (3 units)
   - ISYS 557 Managing Open Source (3 units)
   - ISYS 567 Information Systems Internship (3 units)
   - ISYS 568 Multimedia Business Applications Development (3 units)
   - ISYS 569 Information Systems for Business Process Management (3 units)
   - ISYS 575 Information Security Management (3 units)
   - ISYS 650 Business Intelligence (3 units)
Minor in Information Systems

Specialized Business Minors

These programs are designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, they can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for business majors wishing expertise in a second field.

Minor in Information Systems

Information Systems Minor — 24 units

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 300</td>
<td>Accounting and Finance Reporting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 305</td>
<td>Economic Analysis for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 Units)

Select four from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS 350</td>
<td>Building Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 463</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 471</td>
<td>E-Commerce Systems</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 475</td>
<td>Building Web Applications with Open Source Software</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 512</td>
<td>Business Application Design and Development with .NET</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 556</td>
<td>Building Mobile Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 557</td>
<td>Managing Open Source</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 565</td>
<td>Managing Enterprise Networks</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 567</td>
<td>Information Systems Internship</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 568</td>
<td>Multimedia Business Applications Development</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 569</td>
<td>Information Systems for Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 575</td>
<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 650</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 663</td>
<td>Information Technology Project Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Other courses related to the fields of business information systems and decision sciences may be substituted for one or more elective courses with prior written approval of an IS advisor.

1 ACCT 100 and ACCT 101 may be substituted for ACCT 300, on advisement.

2 ECON 101 and ECON 102 (formerly ECON 100) may be substituted for ECON 305, on advisement.

Note: No elective may be a lower division course. All electives must be taken on a letter grade basis with the exception of courses offered only on a CR/NC basis.
**International Business**

**College of Business**
Dean: Linda Oubre

**Department of International Business**
Science Building, Room 300
Phone: (415) 338—1107
Email: ib@sfsu.edu
Chair: Nini Yang
Undergraduate Advisors: Heiman, Lebedev, Y. Lee, Nicholson, Simeon, Ungson, Wang, Yang

**Major**
- Bachelor of Sciences in Business Administration: Concentration in International Business (p. 260)

**Minor**
- Minor in International Business (p. 266)

**Certificate**
- Certificate in International Business (p. 293)

**Bachelor of Science in Business Administration: Concentration in International Business**

**Concentration in International Business**
By specializing in international business, a student gains an understanding of the international aspects of business while concentrating in a functional business area—marketing, finance, management, export/import management, or logistics. Courses analyze the rapidly changing international environment and the new management problems and tasks that result. A student can begin a career in a functional department of a company, with the opportunity to move into international operations if a need develops. Alternatively, a student may begin working directly in international operations, including the import-export field.

Students studying abroad in California State University International Programs or an SF State Exchange Program may develop special international business concentrations with advisor approval before going abroad. Students with specific educational or career objectives may develop special international business concentrations in consultation with an advisor.

All concentration courses must be taken on a letter-grade basis. Students must have a minimum grade point average of 2.0 in all concentration courses, and International Business majors must earn a grade of C— or higher in IBUS 330.

**Bachelor of Science in Business Administration: Concentration in International Business — 60 units**

**Prerequisites to Core Courses**
In addition to the core course program required of all business majors,

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 110</td>
<td>Calculus with Business Applications (or equivalent to MATH 110)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 110</td>
<td>Business Calculus</td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems (or a passing score on the ISYS 263 CLEP Exam)</td>
<td>3</td>
</tr>
</tbody>
</table>

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions.

**Note:** DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C— or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

**Core Courses for Business Majors (39 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300G</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management 1</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course must be taken for a letter grade.
Required Courses (9 units)
IBUS 590   International Environmental Analysis 3
IBUS 681   Seminar in Comparative Management 3
IBUS 690   Global Strategic Management 3

Geographic Area (3 units)
Select one of the following:
IBUS 591   Doing Business in Latin America 3
IBUS 592   Doing Business in Greater China 3
IBUS 593   Doing Business in Europe 3
IBUS 594   Doing Business in Asia-Pacific Countries 3
IBUS 596   Doing Business in Japan 3
IBUS 598   Doing Business in Emerging Markets 3

Electives (9 units)
Selected from one of the emphases (course may be substituted with advisor approval)

Country Analysis and Emerging Market Environments
IBUS 598   Doing Business in Emerging Markets 3
IBUS 676   Social Entrepreneurship in a Global Context 3
Select one IBUS elective 3

Global Strategy and Competencies
Select three IBUS elective courses 9

Global Entrepreneurship
IBUS 576   Global Entrepreneurship 3
IBUS 676   Social Entrepreneurship in a Global Context 3
Select one IBUS elective 3

Global Innovation and Market Studies
IBUS 531   Cross-Cultural Innovation and Creativity in Business and Management 3
IBUS 620   Research in International Business and the Global Market 3
Select one IBUS elective 3

Global Leadership and Human Resources Management
IBUS 628   Global Human Resource Management 3
IBUS 638   Global Leadership and Cultural Competencies 3
Select one IBUS elective 3

Import/Export Management
IBUS 430   Import-Export Management and Small Business Operations 3
IBUS 576   Global Entrepreneurship 3
Select one IBUS elective 3

Elective Courses
IBUS 430   Import-Export Management and Small Business Operations 3
IBUS 440   Advanced Import-Export Management 3
IBUS 517   Legal Environment of World Business 3
IBUS 531   Cross-Cultural Innovation and Creativity in Business and Management 3
IBUS 566   Careers in International Business 3

IBUS 576   Global Entrepreneurship 3
IBUS 591   Doing Business in Latin America 3
IBUS 592   Doing Business in Greater China 3
IBUS 593   Doing Business in Europe 3
IBUS 594   Doing Business in Asia-Pacific Countries 3
IBUS 596   Doing Business in Japan 3
IBUS 598   Doing Business in Emerging Markets 3
IBUS 620   Research in International Business and the Global Market 3
IBUS 628   Global Human Resource Management 3
IBUS 638   Global Leadership and Cultural Competencies 3
IBUS/ MGMT 659 Introduction to International Business Negotiation 3
IBUS 676   Social Entrepreneurship in a Global Context 3

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
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<td>A1</td>
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<tr>
<td>Communication</td>
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<td>B1</td>
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<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
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<td>B4</td>
</tr>
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<td>Arts</td>
<td>LD</td>
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<td>C1</td>
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<td>3</td>
<td>C1 or C2</td>
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<td>3</td>
<td>C3</td>
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<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
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<td>Social Sciences: US &amp; CA Government</td>
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<td>D3</td>
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<td>3</td>
<td>UD-C</td>
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<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area A4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
Bachelor of Science in Business Administration: Concentration in International Business Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
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<tr>
<td>MATH 110</td>
<td>Business Calculus</td>
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<tr>
<td>or DS 110</td>
<td>or Calculus with Business Applications</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication II (A4)</td>
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<td>or Written English Communication (A2) Stretch II</td>
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<td>GE Area C: Arts (C1)</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>3-4</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td>3</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
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<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
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<td>MATH 124</td>
<td>Elementary Statistics</td>
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<td>ISED 160</td>
<td>Data Analysis in Education</td>
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<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
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<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td>SF State Studies or University Elective</td>
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<td><strong>Units</strong></td>
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<td>ACCT 307</td>
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<td>or ISYS 363</td>
<td>or Information Systems for Management</td>
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<td>BUS 300GW</td>
<td>Business Communication for Professionals</td>
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<td>or DS 660GW</td>
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<td></td>
<td>or Communications for Business Analytics - GWAR</td>
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<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
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<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<td>SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td>Sixth Semester</td>
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<tr>
<td>IBUS 330 International Business and Multicultural</td>
<td>Relations</td>
<td>3</td>
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<tr>
<td>IBUS 590 International Environmental Analysis</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405 Introduction to Management and Organizational Behavior</td>
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<tr>
<td>MKTG 431 Principles of Marketing</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<thead>
<tr>
<th>Seventh Semester</th>
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<tr>
<td>DS 412 Operations Management</td>
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<tr>
<td>IBUS 681 Seminar in Comparative Management</td>
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<tr>
<td>Major Concentration Geographic Area 4</td>
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<td>Major Concentration Elective (9 Units Total) 5</td>
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<th>Eighth Semester</th>
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<tr>
<td>BUS 682 Seminar on Business and Society</td>
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<tr>
<td>BUS 690 Seminar in Business Policy and Strategic Management</td>
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<td>IBUS 690 Global Strategic Management</td>
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<td>Total Units</td>
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</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Geographic Area (3 units)**
   - Select one of the following:
     - IBUS 591 Doing Business in Latin America (3 units)
     - IBUS 592 Doing Business in Greater China (3 units)
     - IBUS 593 Doing Business in Europe (3 units)
     - IBUS 594 Doing Business in Asia-Pacific Countries (3 units)
     - IBUS 596 Doing Business in Japan (3 units)
     - IBUS 598 Doing Business in Emerging Markets (3 units)
Electives (9 units)
Selected from one of the following emphases (course may be substituted with advisor approval):

Country Analysis and Emerging Market Environments
IBUS 598 Doing Business in Emerging Markets (3 units)
IBUS 676 Social Entrepreneurship in a Global Context (3 units)
Select One IBUS Elective

Global Strategy and Competencies
Select Three IBUS Elective Courses

Global Entrepreneurship
IBUS 576 Global Entrepreneurship (3 units)
IBUS 676 Social Entrepreneurship in a Global Context (3 units)
Select One IBUS Elective

Global Innovation and Market Studies
IBUS 620 Research in International Business and the Global Market (3 units)
IBUS 531 Cross-Cultural Innovation and Creativity in Business and Management (3 units)
Select One IBUS Elective

Global Leadership and Human Resources Management
IBUS 628 Global Human Resource Management (3 units)
IBUS 638 Global Leadership and Cultural Competencies (3 units)
Select One IBUS Elective

Import/Export Management
IBUS 430 Import-Export Management and Small Business Operations (3 units)
IBUS 576 Global Entrepreneurship (3 units)
Select One IBUS Elective

IBUS Elective Courses
IBUS 430 Import-Export Management and Small Business Operations (3 units)
IBUS 440 Advanced Import-Export Management (3 units)
IBUS 517 Legal Environment of World Business (3 units)
IBUS 531 Cross-Cultural Innovation and Creativity in Business and Management (3 units)
IBUS 566 Careers in International Business (3 units)
IBUS 576 Global Entrepreneurship (3 units)
IBUS 591 Doing Business in Latin America (3 units)
IBUS 592 Doing Business in Greater China (3 units)
IBUS 593 Doing Business in Europe (3 units)
IBUS 594 Doing Business in Asia-Pacific Countries (3 units)
IBUS 596 Doing Business in Japan (3 units)
IBUS 598 Doing Business in Emerging Markets (3 units)
IBUS 620 Research in International Business and the Global Market (3 units)
IBUS 628 Global Human Resource Management (3 units)
IBUS 638 Global Leadership and Cultural Competencies (3 units)
IBUS 659 Introduction to International Business Negotiation (3 units)
IBUS 676 Social Entrepreneurship in a Global Context (3 units)
Minor in International Business

Specialized Business Minors

These programs are designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, they can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for business majors wishing expertise in a second field.

Minor in International Business

International Business Minor – 24 units

Required Courses (21 units)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
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<tr>
<td>or ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 130</td>
<td>Globalization and Business in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 590</td>
<td>International Environmental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 681</td>
<td>Seminar in Comparative Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 690</td>
<td>Global Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>or MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
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</table>

Elective Course (3 units)

Select one of the following with the approval of an international business advisor:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBUS 430</td>
<td>Import-Export Management and Small Business Operations</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 440</td>
<td>Advanced Import-Export Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 517</td>
<td>Legal Environment of World Business</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 531</td>
<td>Cross-Cultural Innovation and Creativity in Business and Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 566</td>
<td>Careers in International Business</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 576</td>
<td>Global Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 591</td>
<td>Doing Business in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 592</td>
<td>Doing Business in Greater China</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 593</td>
<td>Doing Business in Europe</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 594</td>
<td>Doing Business in Asia-Pacific Countries</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 596</td>
<td>Doing Business in Japan</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 598</td>
<td>Doing Business in Emerging Markets</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 620</td>
<td>Research in International Business and the Global Market</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 628</td>
<td>Global Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 638</td>
<td>Global Leadership and Cultural Competencies</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 659</td>
<td>Introduction to International Business Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 676</td>
<td>Social Entrepreneurship in a Global Context</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: All electives must be taken for a letter grade.
Labor and Employment Studies

College of Business
Dean: Linda Oubre

Labor and Employment Studies Program
Business Building, Room 310
Phone: (415) 338–2138
Director: John Logan

Program Scope
The Labor and Employment Studies program provides students with an introduction to and understanding of the study of labor and employment relations, broadly defined. Over the past few decades, the study of labor and employment relations has expanded significantly to include new topics that did not previously exist as areas of academic inquiry: globalization and employment relations, international labor standards, human rights and labor standards, corporate social responsibility and corporate codes of conduct, monitoring and accountability frameworks, global supply and value chains, corporate governance and employment relations, “decent work,” equality and diversity at work, labor and “global cities;” employment relations in emerging economies, high performance work systems, global corporations and global unions. These topics form the basis of the courses that make up the requirements for the major and minor.

Career Outlook
The major and minor in labor and employment studies provides training for students interested in careers in labor relations or personnel management with unionized private-sector firms or local and state government organizations. Graduates may also be prepared to work for unions, labor or social justice-related NGOs, or other non-profit organizations. Students may gain employment in these areas with local, state, national or international organizations. In the non-union private sector, graduates may work in areas related to corporate social responsibility, codes of conduct, and corporate governance. Finally, students may pursue professional degrees (for example, in public policy, labor and employment law, or MBAs) or graduate degrees in the social sciences.

Professor
Logan

Major
- Bachelor of Arts in Labor and Employment Studies (p. 267)

Minor
- Minor in Labor and Employment Studies (p. 272)

Bachelor of Arts in Labor and Employment Studies

Labor and Employment Studies (B.A.) – 39–40

Units
Required Courses (18 Units)

LABR 250 Introduction to the Study of Labor 3

Graduation Writing Assessment Requirement (3 Units)
HIST 300GW Seminar in Historical Analysis - GWAR 3

Related Electives (15 Units)
Chosen in consultation with the program director.

Final Experience (3–4 Units)
Internship or Final Research Project

Complementary Studies (12 Units)
Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.) Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the Labor and Employment Studies major can count the twelve complementary studies units toward elective units in the major. Consult with your major advisor for assistance.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>

267
Social Sciences: LD 3 D3
  US & CA Government
Lifelong Learning: LD or UD 3 E
  and Self-Development (LLD)
Physical and/or Life Science UD 3 UD-B
Arts and/or Humanities UD 3 UD-C
Social Sciences UD 3 UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) LD or UD 3

Environmental Sustainability (ES) LD or UD 3

Global Perspectives (GP) LD or UD 3

Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)
This 2017–2018 roadmap (p. 270) opens in a new tab.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCs; sometimes options include more than one college. Use ASSIST to determine:

   • Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

   • Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Labor and Employment Studies Roadmap

120 Total Units Required  
Minimum number of units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LABR 250</td>
<td>Introduction to the Study of Labor</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ³</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LABR 251</td>
<td>Know Your Work Rights</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ³</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three ⁴</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Related Electives (15 Units Total) – Select in Consultation with Program Director – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core (12 units total) – Take Two ⁵</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Related Electives (15 Units Total) – Select in Consultation with Program Director – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core (12 Units Total) – Take Two ⁵</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Related Electives (15 units total) – Select in Consultation with Program Director</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
### Eighth Semester

<table>
<thead>
<tr>
<th>Final Experience: Internship or Final Research Project</th>
<th>3-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Four</td>
<td>12</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15-16</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>120-123</strong></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies (12 Units)**
   - Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.) Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the Labor and Employment Studies major can count the twelve complementary studies units toward elective units in the major. Consult with your major advisor for assistance.

5. **Major Core (12 units)**
   - LABR 474 History of Labor in the United States (3 units)
   - LABR 552 Comparative Employment Relations (3 units)
   - LABR 553 Labor Standards and Corporate Social Responsibility (3 units)
   - LABR 555 Labor Rights in the Global Economy (3 units)
   - LABR 650 Labor Law: An Introduction and Overview (3 units)
# Minor in Labor and Employment Studies

## Labor and Employment Studies Minor — 12 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>LABR 250</td>
<td>Introduction to the Study of Labor</td>
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</tr>
<tr>
<td>LABR/ANTH 343</td>
<td>Women and Work</td>
<td></td>
</tr>
<tr>
<td>or HIST/LABR 474</td>
<td>History of Labor in the United States</td>
<td></td>
</tr>
<tr>
<td>LABR/SOC 552</td>
<td>Comparative Employment Relations</td>
<td>9</td>
</tr>
<tr>
<td>LABR/SOC 553</td>
<td>Labor Standards and Corporate Social Responsibility</td>
<td></td>
</tr>
<tr>
<td>LABR/SOC 554</td>
<td>Themes in Comparative Employment Relations</td>
<td></td>
</tr>
<tr>
<td>LABR/SOC 555</td>
<td>Labor Rights in the Global Economy</td>
<td></td>
</tr>
</tbody>
</table>
Management
College of Business

Dean: Linda Oubre

Department of Management
Business Building, Room 310
(415) 338-2138
Email: mgmdept@sfsu.edu (mmi@sfsu.edu)
Chair: Tom Thomas
Undergraduate Advisors: Baack, Desa, Flatt, Gaglio, Harris-Boundy, Kleinrichert, Lamm, Li, Marks, Petkova, Purser, Sharif, Sharifian, Stewart, Thomas, Trivedi

Major
• Bachelor of Science in Business Administration: Concentration in Management (p. 273)

Minor
• Minor in Management (p. 278)

Bachelor of Science in Business Administration: Concentration in Management

Concentration in Management
The Management concentration prepares students to succeed in a wide array of positions in virtually any career. Students learn to see the big picture of any organization, how key pieces fit together, and how the organization fits into an industry, field, and the overall economy. They learn to recognize business problems and opportunities, to develop innovative responses to them, to take a leadership role, to set goals, and to use people skills in achieving them. In essence, students learn to take a managerial perspective and to perform such managerial and leadership activities as planning, team building, motivating, organizing, communicating, problem-solving, decision-making. As a result, they gain the knowledge and skills to achieve success—regardless of the industry, field or job position.

All concentration courses must be taken on a letter-grade basis. Students must have a minimum grade point average of 2.0 in all concentration courses.

Bachelor of Science in Business Administration: Concentration in Management — 60 units

Prerequisites to Core Courses
In addition to the core course program required of all business majors,

These courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic</td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td>Management</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
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</table>

1 Course must be taken for a letter grade.

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 605</td>
<td>Seminar in Developing Management Skills</td>
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</tr>
<tr>
<td>MGMT 648</td>
<td>Seminar in Leadership and Influence Skills</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 670</td>
<td>Seminar in Organization Design and Change</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 units)
Select four electives, either all from Group A or three from Group A and one from Group B or another course with advisor approval.

Group A

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 567</td>
<td>Internship in Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 610</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 640</td>
<td>Managing Diversity in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 650</td>
<td>Creativity and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 655</td>
<td>Seminar in Emerging Issues in Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 656</td>
<td>Seminar in Managing Teams</td>
<td>3</td>
</tr>
<tr>
<td>MGMT/IBUS 659</td>
<td>Introduction to International Business Negotiation</td>
<td>3</td>
</tr>
</tbody>
</table>
MGMT 660  Perspectives on Mergers and Acquisitions  3

**Group B**

BUS 440  Ethics at Work: Business Impacts  3
BUS 450  Greening of Business  3
MGMT 354  Starting a Small Business  3
MGMT 407  Economics for Managers  3
MGMT 535  Selected Topics in Entrepreneurship  3
MGMT/IBUS 618  International Human Resource Management  3

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
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<tr>
<td>Written English Communication I</td>
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<td>3</td>
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<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
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<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
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<td>LD</td>
<td>3</td>
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<tr>
<td>Arts or Humanities</td>
<td>LD</td>
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<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
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<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM)  LD or UD  3
- Environmental Sustainability (ES)  LD or UD  3

Global Perspectives  LD or UD  3
Social Justice  LD or UD  3

**Note:** LD = Lower Division; UD = Upper Division.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer:
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)
Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
### Bachelor of Science in Business Administration: Concentration in Management Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
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<tr>
<td>MATH 110 or DS 110</td>
<td>Business Calculus or Calculus with Business Applications</td>
<td>3</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
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<td></td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
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<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
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<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) or SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>ACCT 307 or ISYS 363</td>
<td>Accounting Information Systems or Information Systems for Management</td>
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<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
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<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural RelationsUpper Division Social Sciences: UD-D (Consider SF State Studies Course)</td>
<td>3</td>
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<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
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<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<td><strong>Sixth Semester</strong></td>
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<td>FIN 350</td>
<td>Business Finance</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>MGMT 605</td>
<td>Seminar in Developing Management Skills</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
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<td>SF State Studies or University Elective</td>
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</table>

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 648</td>
<td>Seminar in Leadership and Influence Skills</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective (12 Units Total) – Take Two ^4</td>
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<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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</table>

**Eighth Semester**

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 670</td>
<td>Seminar in Organization Design and Change</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective (12 Units Total) – Take Two ^4</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Major Concentration Electives**
   
   Select four electives, either all from Group A or three from Group A and one from Group B or another course with advisor approval.

**Group A**
- MGMT 567 Internship in Management (3 units)
- MGMT 610 Human Resource Management (3 units)
- MGMT 640 Managing Diversity in the Workplace (3 units)
- MGMT 650 Creativity and Innovation (3 units)
- MGMT 655 Seminar in Emerging Issues in Management (3 units)
- MGMT 656 Seminar in Managing Teams (3 units)
- MGMT 659 Introduction to International Business Negotiation (3 units)
- MGMT 660 Perspectives on Mergers and Acquisitions (3 units)

**Group B**
- BUS 440 Ethics at Work: Business Impacts (3 units)
- BUS 450 Greening of Business (3 units)
- MGMT 354 Starting a Small Business (3 units)
- MGMT 407 Economics for Managers (3 units)
- MGMT 535 Selected Topics in Entrepreneurship (3 units)
- MGMT 618 International Human Resource Management (3 units)
Minor in Management

Specialized Business Minors

These programs are designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, they can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for business majors wishing expertise in a second field.

Minor in Management

Management Minor – 21 units

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 605</td>
<td>Seminar in Developing Management Skills</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 648</td>
<td>Seminar in Leadership and Influence Skills</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 670</td>
<td>Seminar in Organization Design and Change</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (9 units)

Choose three electives, either all from Group A, or two from Group A and one from Group B or another course with advisor approval.

Group A Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 567</td>
<td>Internship in Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 610</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 650</td>
<td>Creativity and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 655</td>
<td>Seminar in Emerging Issues in Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 656</td>
<td>Seminar in Managing Teams</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 659</td>
<td>Introduction to International Business Negotiation</td>
<td>3</td>
</tr>
</tbody>
</table>

Group B Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 354</td>
<td>Starting a Small Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 618</td>
<td>International Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 440</td>
<td>Ethics at Work: Business Impacts</td>
<td>3</td>
</tr>
<tr>
<td>BUS 450</td>
<td>Greening of Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: All electives must be taken for a letter grade.
Marketing
College of Business
Dean: Linda Oubre

Department of Marketing
SCI 300
(415) 338-1107
Email: mktgdept@sfsu.edu (mmi@sfsu.edu)
Chair: Judi Strebel
Undergraduate Advisors: Bhat, Damangir, Ho, Ho-Dac, Hussain, Kumar, O'Donnell, Papyrina, Robertson, Sengupta, Sinapuelas, Strebel, Tumbat, Wang

Major
• Bachelor of Science in Business Administration: Concentration in Marketing (p. 279)

Minor
• Minor in Marketing (p. 284)

Bachelor of Science in Business Administration: Concentration in Marketing

Concentration in Marketing
A concentration in Marketing prepares students for career opportunities in business firms, non-profit organizations, or government agencies. The program provides a basic foundation of business concepts and practices, as well as specialized courses in advertising, public relations, retailing, sales, digital marketing, data analytics, branding, new product development and marketing research. Career opportunities can be found within social media marketing, data analytics, sales and sales management, marketing research, product/brand management, retail management, advertising, merchandising, public relations, and non-profit agencies.

All concentration courses must be taken on a letter-grade basis. Students must have a minimum grade point average of 2.0 in all concentration courses.

Bachelor of Science in Business Administration: Concentration in Marketing — 60 units

Prerequisites to Core Courses
In addition to the core course program required of all business majors, these courses must be completed before enrollment in certain core courses. Most core courses have specific prerequisites that are listed within the course descriptions

Note: DS 110, ECON 101, and ECON 102 (formerly ECON 100) are acceptable for General Education.

Except in cases of credit by examination, no more than 6 units of the core may be offered toward graduation on a CR/NC basis.

Students must earn a grade of C- or higher in core business courses being used as prerequisites for other core business courses. Students who received grades of D-, D, or D+ before spring 2005 will be given an exception to this rule for any such courses.

Core Courses for Business Majors (39 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or DS 660GW</td>
<td>Communications for Business Analytics - GWAR</td>
<td></td>
</tr>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td>3</td>
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<tr>
<td>or MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>or ACCT 307</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
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</table>

Course must be taken for a letter grade.

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MKTG 632</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 633</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 649</td>
<td>Marketing Management</td>
<td>3</td>
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</tbody>
</table>

Electives (12 units)

Select four of the following or other courses on advisement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MKTG 432</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 433</td>
<td>Personal Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 434</td>
<td>Advertising Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 436</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 440</td>
<td>Advertising Creativity and Production</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 441</td>
<td>Business to Business Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 443</td>
<td>Sales Promotion and Publicity</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 469</td>
<td>Digital Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 567</td>
<td>Internship in Marketing</td>
<td>3</td>
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### General Education Requirements

<table>
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<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
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<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
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<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
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<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
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<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
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<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<td>Arts or Humanities: Literature</td>
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<td>C1 or C2</td>
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<td>C3</td>
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<td>Social Sciences: Literature</td>
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<td>D2</td>
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<td>Social Sciences: US &amp; CA Government</td>
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<td>D3</td>
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<td>UD-B</td>
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<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
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<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
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#### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM) | LD or UD | 3
- Environmental Sustainability (ES) | LD or UD | 3

### Bachelor of Science in Business Administration: Concentration in Marketing

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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</thead>
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<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** LD = Lower Division; UD = Upper Division.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer:
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)
Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements.
Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Business Administration: Concentration in Marketing Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 60

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>or DS 110</td>
<td>or Calculus with Business Applications</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 263</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 101</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>DS 212</td>
<td>Business Statistics I</td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 300GW</td>
<td>Business Communication for Professionals - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td>3</td>
</tr>
</tbody>
</table>
ISYS 363 Information Systems for Management 3
MGMT 405 Introduction to Management and Organizational Behavior 3
MKTG 632 Marketing Research 3
MKTG 633 Consumer Behavior 3

Units 15

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 682</td>
<td>Seminar on Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>DS 412</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 649</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – 12 Units Total 4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Units 15

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 690</td>
<td>Seminar in Business Policy and Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – 12 Units Total 4</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Units 15

Total Units 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SFSU Studies requirements (AERM, GR ES, SJ) within your GE
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP
3. you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses
4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied

**Electives (12 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 432</td>
<td>Public Relations (3 units)</td>
</tr>
<tr>
<td>MKTG 433</td>
<td>Personal Selling (3 units)</td>
</tr>
<tr>
<td>MKTG 434</td>
<td>Advertising Theory and Practice (3 units)</td>
</tr>
<tr>
<td>MKTG 436</td>
<td>Retail Management (3 units)</td>
</tr>
<tr>
<td>MKTG 440</td>
<td>Advertising Creativity and Production (3 units)</td>
</tr>
<tr>
<td>MKTG 441</td>
<td>Business to Business Marketing (3 units)</td>
</tr>
<tr>
<td>MKTG 443</td>
<td>Sales Promotion and Publicity (3 units)</td>
</tr>
<tr>
<td>MKTG 469</td>
<td>Digital Marketing (3 units)</td>
</tr>
<tr>
<td>MKTG 567</td>
<td>Internship in Marketing (3 units)</td>
</tr>
<tr>
<td>MKTG 637</td>
<td>Sales Management (3 units)</td>
</tr>
<tr>
<td>MKTG 644</td>
<td>Services Marketing (3 units)</td>
</tr>
<tr>
<td>MKTG 647</td>
<td>Organizational Reputation Management and Communication (3 units)</td>
</tr>
<tr>
<td>MKTG 660</td>
<td>Marketing Analytics (3 units)</td>
</tr>
<tr>
<td>MKTG 675</td>
<td>Brand Management (3 units)</td>
</tr>
<tr>
<td>MKTG 680</td>
<td>International Marketing Management (3 units)</td>
</tr>
<tr>
<td>MKTG 688</td>
<td>New Product Management Seminar (3 units)</td>
</tr>
<tr>
<td>MKTG 689</td>
<td>New Product Marketing and Launch (3 units)</td>
</tr>
</tbody>
</table>
Minor in Marketing

Specialized Business Minors

These programs are designed to provide undergraduates with a focused exposure to a particular area of business practice rather than the broad exposure of the General Business Minor. As such, they can provide professional and technical skills needed for entry into specialized business employment for non-business majors or serve as an alternative to a double major for business majors wishing expertise in a second field.

Minor in Marketing

Marketing Minor – 18 Units

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 434</td>
<td>Advertising Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (9 units)

Select three of the following with the approval of a marketing advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 432</td>
<td>Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 433</td>
<td>Personal Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 436</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 441</td>
<td>Business to Business Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 443</td>
<td>Sales Promotion and Publicity</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 469</td>
<td>Digital Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 637</td>
<td>Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 644</td>
<td>Services Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 647</td>
<td>Organizational Reputation Management and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td>MKTG 675</td>
<td>Brand Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 680</td>
<td>International Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 688</td>
<td>New Product Management Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 689</td>
<td>New Product Marketing and Launch</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: All electives must be taken for a letter grade.
World Development Studies

World Development Studies Program

Health and Social Science Building, Room 149
(415) 338-1116
Coordinator: Phil King

Program Scope

The field of world development studies looks at the comprehensive transformations that have been brought to human societies across the globe by the spread of the industrial revolution. Approximately one-third of the world’s population enjoys a higher material standard of living due to industrialization, whereas two-thirds are in relative poverty. The likelihood, means, and consequences of closing this gap provide the central foci of world development studies. Since this social transformation affects all aspects of human existence, all of the social science disciplines devote important efforts to understanding it.

Issues Central to World Development Studies

• How did the world distribution of income and wealth become so unequal, and will or must it stay that way?
• Can economic development occur in a non-Western way?
• What is the role of grassroots organizations and movements in social change?
• In development strategy, how much market and how much planning?
• How does the development process impact women differently from men?
• Are industrialization and environmental health compatible?
• Is economic development necessarily associated with democracy?
• What does global change do to existing cultures and psyches?

Career Outlook

Though the minor is not intended as a complete career preparation, it certainly serves as an introduction to a growing career field. There are tens of thousands of development professionals working for governments, the United Nations and its affiliated agencies, a multitude of non-governmental organizations, development banks, universities, and private companies around the world. The minor enables the student to discover a major field of employment as well as scholarly activity.

Professors

Banerjee, Barbosa, Moss, Øiate, Shastri, Yansane

Associate Professors

Keith, King, Quesada

World Development Studies Minor – 22 – 28 units

All courses must be approved by a faculty advisor, who should be contacted as soon as a student decides to declare the minor. All student’s program must include courses with at least three different departmental prefixes. Substitutions are possible with an advisor’s approval.

Historical Background (3 units)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 302</td>
<td>Black Diaspora</td>
<td>3</td>
</tr>
</tbody>
</table>

Regional Comparisons (6 – 8 units)

Select two different regions of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 301</td>
<td>Africa in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 315</td>
<td>Regional Ethnography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 520</td>
<td>Central America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>HIST 550</td>
<td>Social Change in Modern Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 611</td>
<td>Modern Africa</td>
<td>3</td>
</tr>
<tr>
<td>I R/PLSI 321</td>
<td>Development and Foreign Policy–Africa</td>
<td>4</td>
</tr>
<tr>
<td>I R/PLSI 322</td>
<td>Latin American Policy Analysis</td>
<td>4</td>
</tr>
<tr>
<td>I R 324</td>
<td>Middle East and North Africa in International Relations</td>
<td>4</td>
</tr>
<tr>
<td>LTNS 460</td>
<td>Central Americans of the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>PLSI/I R 412</td>
<td>South Asian Politics</td>
<td>4</td>
</tr>
<tr>
<td>PLSI/I R 416</td>
<td>Ethnicity and Nationalism</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (3 – 4 units)

Select one of the following or from courses in the above categories not chosen to fulfill a requirement within student’s program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH/CST 320</td>
<td>Racism: Cross-Cultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ANTH/CST 585</td>
<td>Globalization and World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>CINE 308</td>
<td>Third Cinema</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 425</td>
<td>Economic Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 524</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 528</td>
<td>History of Brazil</td>
<td>3</td>
</tr>
<tr>
<td>HIST 571</td>
<td>History of Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 578</td>
<td>History of Japan</td>
<td>3</td>
</tr>
<tr>
<td>HUM 520</td>
<td>North and South American Cultural Expression</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>IBUS 591</td>
<td>Doing Business in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 592</td>
<td>Doing Business in Greater China</td>
<td>3</td>
</tr>
<tr>
<td>I R/PLSI 325</td>
<td>Chinese Foreign Policy</td>
<td>4</td>
</tr>
<tr>
<td>I R 326</td>
<td>South and Southeast Asia Foreign Relations</td>
<td>4</td>
</tr>
<tr>
<td>I R 334</td>
<td>International Organizations: New World Order</td>
<td>4</td>
</tr>
<tr>
<td>I R 446</td>
<td>The Multinational Corporation in World Affairs</td>
<td>4</td>
</tr>
<tr>
<td>LTNS/HIST 278</td>
<td>History of Latinos in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>PSY 455</td>
<td>Cross-Cultural Perspectives in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Holistic Perspective: Special Study (1 unit)**
A special study from the student’s advisor’s home department
(ANTH 699, ECON 699, etc.)
BUSINESS GRADUATE PROGRAMS

General Information
The College of Business Graduate Programs are located at the San Francisco State University Downtown Campus.

835 Market Street, Suite 600
San Francisco, CA 94103
(415) 817-4300
Email: mba@sfsu.edu

The College of Business offers three programs at the graduate level:

M.B.A. This is the most flexible graduate business degree program. The program is designed to accommodate needs of both full-time and part-time students. The program allows for specialization in several areas of emphasis or a concentration in Sustainable Business.

M.S.A. The M.S. in Accountancy program allows for advanced specialization in accounting for both full-time and part-time students. Courses for this program are primarily offered at the Downtown Campus. More details on this program are available on the M.S.A. webpage (http://bulletin.sfsu.edu/colleges/business/accounting/ms-accountancy).

Executive M.B.A. This is a fixed curriculum, cohort-based, weekend program for working professionals offered at the Downtown Campus. For more details, see the E.M.B.A. program description at the bottom of this page.

General Guidelines for Graduate Programs
All students planning to complete a master’s degree in business must complete all requirements including professional development workshops, the program prerequisite classes, and the advanced requirement courses.

Registration in graduate courses in business (700–899) is limited to graduate business students or students in a graduate business certificate program. Graduate students in other majors may enroll on a space-available basis with the consent of the Faculty Director of Graduate Business Programs.

Registration in ACCT 890 and BUS 890 (Culminating Experience courses) is limited to classified graduate business students.

Grading Policy
Program prerequisite and advanced requirement courses must be taken on a basis of letter A, B, C, D, F grading. At the instructor’s discretion, pluses and minuses may be used. CR/NC grading is not allowed. The minimum grade for advanced requirement courses is a C.

ACCT 890 and BUS 890 (Culminating Experience courses) must be completed with a B- or better grade.

Grade Deficiency
A graduate business student whose coursework drops below a 3.0 grade point average during a semester, will be notified that s/he has been placed on academic probation. If the grade point deficiency is not made up, the student may be disqualified effective the beginning of the semester following the first probationary semester. In such situations, the student will not be allowed to enroll in graduate level business courses at the program prerequisite and advanced requirement level.

Any student who becomes disqualified under the above provisions and wishes to appeal such disqualification must file a formal appeal within 10 days of the date of notice of disqualification. Such appeal must be filed with the Faculty Director of Graduate Business Programs.

The specified course requirements and stipulated conditions for the graduate business programs may not be changed, substituted for, or altered in any way. Exceptions to this rule must be requested, in writing, before the course work is attempted and must be approved by the Faculty Director of Graduate Business Programs.

<table>
<thead>
<tr>
<th>Programs</th>
<th>Contact</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Director of Graduate Business Programs</td>
<td>Sanjit Sengupta</td>
<td>817-4366</td>
</tr>
<tr>
<td>Director of Admissions, Recruitment and External Relations</td>
<td>Manuel Maranan</td>
<td>817-4323</td>
</tr>
<tr>
<td>Graduate Student Advising Director</td>
<td>Christopher Kingston</td>
<td>817-4322</td>
</tr>
<tr>
<td>Assistant Director, Admissions and Professional Development</td>
<td>Armaan Moattari</td>
<td>817-4314</td>
</tr>
<tr>
<td>Program Coordinator for Admissions</td>
<td>Richard Ho</td>
<td>817-4341</td>
</tr>
<tr>
<td>EMBA Program Coordinator</td>
<td>Zandra Tan</td>
<td>817-4360</td>
</tr>
</tbody>
</table>

Master of Business Administration
The M.B.A. program is designed as a balanced preparation for managerial careers in business. Its purpose is to prepare students for responsible positions in a rapidly changing world; to develop an attitude of intellectual curiosity; to foster a program of continuous learning throughout life; and to apply business skills to all types of endeavors. Students may choose an area of emphasis or a concentration in Sustainable Business (note that an emphasis does not appear on the student’s degree).

Accreditation
The M.B.A. program is accredited by the most respected business accrediting association in the world, the Association to Advance Collegiate Schools of Business (AACS). San Francisco State University is also accredited by the Western Association of Schools and Colleges (WASC). This ensures continuous improvement of faculty in teaching, research, and professional service.

Admission
U.S. citizens, permanent residents, and international students are accepted for both fall and spring admission according to the following schedule.

- Fall semester filing period: October 1 through May 15 (international applicants). October 1 through May 30 (domestic applicants). There are three rounds of application deadlines during this period.
• Spring semester filing period: August 1 through October 15 (international applicants). August 1 through November 1 (domestic applicants).

The above dates are subject to change. Check the Graduate Business Program’s website for the latest dates.

**Application Process**
Each applicant to the M.B.A. program must submit the following documents:

• California State University Application for Graduate or International Admission plus an application fee of $55
• One official transcript from every college or university attended
• The score on the GMAT (Graduate Management Admissions Test) or GRE (Graduate Record Examination). The deadline to take the GMAT or GRE is May 15 (international applicants) or May 30 (domestic applicants) for Fall admission and October 15 (international applicants) or November 1 (domestic applicants) of the prior year for Spring admission.
• A statement of purpose showing how the desired graduate business program is related to the applicant’s career and future goals. Please refer to the College of Business website for a list of questions that should be addressed in the statement of purpose.
• TOEFL, IELTS, or Pearson Test of English is required for admission from all applicants who have completed their undergraduate degree in a non-English speaking country.
• Résumé or curriculum vitae
• Two letters of recommendation
• International applicants will need to file the Financial Affidavit form to obtain an I-20 Certificate of Eligibility

The California State University Application for Admission may be submitted before other documents are submitted, but the admission decision is not made until all required materials are received.

**Admission Criteria**
The College of Business admissions committee reviews an applicant’s overall qualifications and takes the following requirements into consideration:

• Completion of a degree equivalent to a four-year U.S. bachelor’s degree from a recognized university.
• A minimum 3.0 Grade Point Average overall, or in the last 60 semester units or 90 quarter units of university coursework completed (average incoming class GPA is 3.3)
• GMAT exam including total score, verbal, quantitative, writing scores, and integrated reasoning scores (average incoming class total GMAT score is 570) or the GRE test verbal, quantitative, and writing scores. A GMAT AWA score of 5.0 or a GRE AWA score of 4.5 or higher is required for classified admission. A GMAT AWA score of 4.5 or GRE AWA score of 4.0 is acceptable, however, a student will be conditionally admitted and must complete an approved College of Business writing course.
• Quality of statement of purpose using guidelines stated on College of Business website
• Two supportive letters of recommendation from workplace supervisors or faculty members
• Qualifications on résumé

• TOEFL score of at least 590/243/96 or IELTS score of at least 7.0 or PTE score of at least 65. The TOEFL, IELTS or PTE must have been taken within the past two years and is a requirement of all applicants who have earned their undergraduate degree from a country where the official language is not English.

Meeting minimum qualifications does not guarantee admission to the program.

**Executive Master of Business Administration (E.M.B.A.) program**

**General Information**
The Executive M.B.A. (E.M.B.A.) is a fixed curriculum, 23-month, part-time cohort program designed to accelerate careers of mid-level managers into executive management. Students in the EMBA program attend courses on Fridays and Saturdays, every other week. There is a total of 12 courses required for the entire program.

**Accreditation**
The E.M.B.A. program is accredited by the most respected business accrediting association in the world, the Association to Advance Collegiate Schools of Business (AACSB). San Francisco State University is also accredited by the Western Association of Schools and Colleges (WASC). This ensures continuous improvement of faculty in teaching, research, and professional service.

For information on the E.M.B.A. program Application process, admission criteria and program requirements, see the College of Business website: Executive MBA Program (E.M.B.A.) (http://cob.sfsu.edu/graduate-programs/EMBA)

**Program Requirements**

**Orientation and Professional Development Workshops**
Admitted students are expected to attend the required orientation prior to the start of their first semester. The Graduate Business Programs orientation helps students prepare for the academic program and also includes professional development workshops.

**Prerequisite Courses**
Prerequisite courses offer students without a business undergraduate degree the opportunity to learn the basic elements of business. Depending upon a student’s previous academic background, the prerequisite courses may range from zero to 24 units. The program requirements are met by taking the eight business prerequisite courses below or by waivers of individual courses based on previous equivalent course work.

Students who have earned a bachelor’s degree in business administration within the past seven years from an Association to Advance Collegiate Schools of Business (AACSB)-accredited university, with a minimum 3.0 GPA in the last 60 semester units of coursework, automatically meet the program prerequisites. An up-to-date listing of AACSB schools around the world can be found on the AACSB International website (http://www.aacsb.edu). Students who have taken and completed course work equivalent to any of the prerequisite courses at other institutions within the last five to seven years may be able to waive individual prerequisite courses. Each equivalency is determined by course content, grade received, and the amount of time elapsed since the course was completed.
For students who completed their undergraduate degree in business over seven years ago, the program prerequisite courses offer an opportunity to refresh their knowledge and catch up on advances that have taken place in the different disciplines.

**Master of Business Administration — 30–51 Units**

**Prerequisite for Conditional Admits (3 Units)**

BUS 714  
Elements of Graduate Business Writing  

**Prerequisite Courses for M.B.A. Program (0–24 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS 776</td>
<td>Data Analysis for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS 780</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 782</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 783</td>
<td>Economics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS 785</td>
<td>Financial Management</td>
<td>3</td>
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<tr>
<td>BUS 786</td>
<td>Operations Analysis</td>
<td>3</td>
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<tr>
<td>BUS 787</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 788</td>
<td>Management Principles and Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

**Advanced Requirements for M.B.A. Program (6 Units)**

**Quantitative Requirement**  
Select one of the following:  

- ACCT 831  
  Financial Statement Analysis  
- DS 852  
  Managerial Decision Making  
- FIN 819  
  Financial Analysis and Management  
- ISYS 814  
  Information Systems for Strategic Advantage  

**Qualitative Requirement**  
Select one of the following:  

- IBUS 815  
  Seminar in International Business  
- MGMT 842  
  Seminar in Organization Design and Change  
- MKTG 860  
  Strategic Marketing  
- BUS 884  
  Business Ethics, Society, and Sustainability  

**Electives (21 Units)**

Advisor approved electives (at least five must be 800-level courses offered by the College of Business, up to two may be graduate level courses within the University with prior advisor approval.) A maximum of two prerequisite courses taken at SF State (BUS 776, BUS 780, BUS 782, BUS 783, BUS 785, BUS 786, BUS 787, BUS 788) may count as electives.

**Culminating Experience (3 Units)**

BUS 890  
Culminating Experience in Strategic Management  

**Advancement to Candidacy**

Before being considered for advancement to candidacy, the applicant must meet all general University requirements, attend all professional development workshops at orientation, satisfy all prerequisite courses, earn an overall SF State Grade Point Average (GPA) of at least 3.0, and complete at least 12 units of College of Business advanced requirement courses.

When requirements have been satisfied, the graduate advisor may recommend to the Dean of the Division of Graduate Studies that the applicant be advanced to candidacy for the degree by filing the Advancement to Candidacy (ATC) form.

**Areas of Emphasis and Concentration**

**Accounting Emphasis**

Graduate Advisors: Hammond, Hetherington, Hsieh

The primary objective of the accounting emphasis is to provide broad-based knowledge in accounting especially directed to managerial positions in the accounting profession and business organizations. The emphasis and elective graduate courses, all at the 800 level, should be selected upon advisement.

**Decision Sciences/Operations Research Emphasis**

Graduate Advisors: Bollapragada, Cholette, Miyaoa, Saltzman, Soorapanth

The decision sciences/operations research emphasis focuses on the connection between real-world business applications and quantitative modeling and analysis techniques. This emphasis includes courses in forecasting, simulation, data analysis, project management, optimization, supply chain management, process improvement and quality management. In these courses, students apply analytical methods and computer-based tools to problems in a wide variety of industries.

**Finance Emphasis**

Graduate Advisors: Hsiao, L. Li, Liu

The primary objective of the finance emphasis is to provide a broad management perspective as well as in-depth analytical skills and conceptual background in the various aspects of domestic and international financial management and decision-making. The courses offered are aimed at understanding, analyzing, and improving managerial decision-making processes in the size of corporate finance, financial markets and institutions, investment and portfolio analysis, and international finance.

The program is designed to prepare the students for employment positions in the field of finance, which require analytical skills and decision-making abilities. Students should carefully check prerequisites for all 800-series courses.

**Global Business and Innovation Emphasis**

Graduate Advisor: Heiman

The MBA emphasis in Global Business and Innovation prepares students to operate effectively in a technological, global, and interconnected world. The emphasis will provide a variety of options for cultural immersion experiences through virtual projects and travel-study experiences.

**Health Care Administration Emphasis**

Graduate Advisors: Chaudhuri, Sengupta

This emphasis will provide students with knowledge and skills necessary to understand the health care industry and health policy in the United States. The curriculum is designed to prepare students to apply business skills and succeed in supervisory or managerial positions in both for-profit and not-for-profit health care organizations.
Hospitality and Tourism Management Emphasis
Graduate Advisors: Johnson, Roe, Walls, Yang

The hospitality and tourism management emphasis provide advanced, specific knowledge in important hospitality areas, especially directed to managerial positions in the hospitality profession and related service organizations.

Information Systems Emphasis
Graduate Advisor: Sayeed

The Information Systems program aims to prepare professionals who specialize in technologies that facilitate information system development, information consolidation and analytics in an environment that is integrated through mobile and cloud-based devices to support business strategy.

Leadership Emphasis
Graduate Advisors: Baack, Marks

The emphasis in leadership focuses on the skills necessary to lead organizations in a complex and rapidly changing world.

Management Emphasis
Graduate Advisors: Baack, Flatt, Marks

The management emphasis provides students with practical knowledge and skills in organizational development and change, organizational behavior, and organization design. This emphasis is designed for students who wish to pursue general management careers or who wish to specialize in facilitating organizational development and change as consultants or change agents.

Marketing Emphasis
Graduate Advisors: Bhat, Sengupta

The marketing emphasis prepares a student for career opportunities in business firms, non-profit organizations, or governmental agencies. The combination of graduate work and specific job experience can lead to staff or line positions in general marketing, sales, digital and social media marketing, advertising, new product development, retail management, marketing research, and marketing analytics, among others.

Strategic Leadership in Emerging and Developing Markets Emphasis
Graduate Advisors: Simeon, Ungson, Yang

This emphasis provides students knowledge of global trends and a substantive understanding of emerging opportunities and issues in a rapidly globalizing world. The courses will focus on, though not be confined, to study of emerging and developing markets.

Sustainable Business Concentration
Graduate Advisors: Thomas, Desa

The Concentration focuses on four aspects of sustainable business that create stakeholder value and improve a firm's long-term market impact: Providing effective values-based leadership of green teams and responsible organizations; Identifying and pursuing strategic market opportunities created by environmental and social challenges; Using innovative solutions-based analytical frameworks and tools to address stakeholder needs; Managing risk (regulatory, reputation, climate, market) and tracking/reporting sustainability metrics. Students in the program learn how to articulate the business case for sustainability; conceptualize innovative products and services; lead internal and external coalitions; drive organizational change; and implement metrics to measure sustainability progress and incorporate accountability for responsible decision-making.

Students in the sustainable business concentration must complete MGMT 856 (Managing the Sustainable Business), BUS 857 (Business Management and Environmental Leadership), MGMT 858 (Sustainability and Business Opportunity) and two 800-level business electives on advisement.
BUSINESS CERTIFICATES

Undergraduate
- Certificate in Commercial Real Estate for Finance Majors (p. 293)
- Certificate in Information Technology Auditing (p. 293)
- Certificate in International Business (p. 293)
- Certificate in the Study of Public Accountancy (p. 294)

Graduate
- Business Certificate in Ethics & Compliance (p. 291)
- Certificate in Accounting (p. 292)

Business Certificate in Ethics & Compliance

The Business Certificate in Ethics & Compliance is a unique program that fulfills management and business needs for Ethics and Compliance professionals in growth industries such as healthcare, biotech, pharmaceutical, information technology services and products, finance and accounting, manufacturing and hospitality.

The Business Certificate in Ethics & Compliance provides access to post-undergraduate level students and professionals seeking very specific academic training. These individuals may already have either a graduate degree or are seeking graduate-level certificate course preparation for their further professional development.

Ethics and Compliance (E&C) specialists work to prevent their organizations from committing errors that violate ethical standards of best practice or regulatory compliance. E&C specialists assess a company’s potential adverse or ethical impacts on their stakeholders. These specialists may also use analytical tools, such as Enterprise Risk Management (ERM), to proactively measure the effectiveness of ethical practices and assess compliance with U.S. and global regulations by identifying specific situations of risk to an organization’s stakeholders (i.e., employees, customers, suppliers, regulators, and communities).

Two key areas of need for E&C specialists are leadership in instilling internal control and strategic planning in various functional areas of a company. Their role is to reduce the risk of unethical or illegal activities by individuals working in organizations through the development of policies and procedures to prevent these ethical failures. E&C specialists must be able to navigate within an organization to instigate best practices using ethical negotiation skills. Examples of tools developed by E&C specialists include developing and supporting corporate codes of conduct, employee training, regulatory compliance processes, analytical assessment and forecasting, negotiation strategies, as well as advisement to top management and senior organizational leaders towards ethical corporate cultures.

A student in the Business Certificate in Ethics & Compliance program may apply the academic credit for the three courses to the SF State College of Business M.B.A. program after applying for and being accepted to the M.B.A. program (matriculate), but the student must complete the M.B.A. program within seven years from the completion of each Business Certificate in Ethics & Compliance class for each class to receive credit towards the M.B.A. M.B.A. students who satisfy the Emphasis in Ethics and Compliance will be eligible for the Business Certificate in Ethics & Compliance. (Please see the following guidelines on the certificate program application and enrollment into the M.B.A. program.)

Certificate learning outcomes include developing key skills for students in:
- ethical issues identification and solutions-based mindsets, (MGMT 850)
- ethical analysis and data-analytics decision-making models for strategic planning, (MGMT 850)
- understanding the demands of transparency and Sunshine Laws, (MGMT 850)
- effectively understanding, negotiating and managing business risks and safety for stakeholders, (BUS 859/IBUS 859, MGMT 857)
- understanding the compliance and regulatory challenges of global business practices,
  - examples include: FCPA, Sunshine Laws, HIPAA, Affordable Care Act, ADA,
  - EEOC, Sarbanes-Oxley, Dodd-Frank, EPA, etc. (MGMT 850)
- compliance aptitude as a strategic partner for organizational integrity, (MGMT 850)
- measuring and auditing the effectiveness of compliance programs, (MGMT 850)
- integrating ethics and aligning compliance management and risk management with analytics, (MGMT 850)
- understanding the complexities of technology and protections for stakeholder privacy, (MGMT 850)
- developing organizational operations, training and structures under Chief Ethics and Compliance Officers, (BUS 859/IBUS 859)
- operating as change agents in the negotiation to effect organizational change, (BUS 859/IBUS 859)
- developing best practices in leadership of organizational processes and managing stakeholder impacts. (MGMT 857)

Business Certificate in Ethics & Compliance – 9 Units

Required Courses
Students must complete each of the following courses with a letter grade of at least a B. The three courses selected are critical skill-building courses in foundational ethics and compliance, operational organizational leadership with integrity, and applied negotiation skills in working inter- and intra-organizationally.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 850</td>
<td>Ethics and Compliance in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 857</td>
<td>Leadership in Action</td>
<td>3</td>
</tr>
<tr>
<td>BUS/IBUS 859</td>
<td>International Business Negotiating</td>
<td>3</td>
</tr>
</tbody>
</table>

Admissions Requirements

Baccalaureate degree with a minimum of a 3.0 GPA demonstrated on submitted sealed or electronic university or college transcripts and an English writing sample will be required to be admitted as a post-baccalaureate unclassified student to the Business Certificate in Ethics & Compliance program. San Francisco State University accepts applications for admission for the Fall and Spring semesters only, but some courses in the certificate program may be offered during the summer months. Admissions decisions for student acceptance/decline for the program will be 4–6 weeks after all transcripts are received.
Application – Two Steps
Apply to the College of Business and the University online at: http://cob.sfsu.edu/graduate-programs/graduate-checklist. You will be able to apply directly to the Business Certificate in Ethics & Compliance program and San Francisco State University on this page. Please note that there will be two online applications, one for the university application and one for the certificate program application. At the CSU Mentor website at http://www.csumentor.edu, pay the required application fee and submit your official transcripts from all colleges and universities attended to the Division of Graduate Studies. Applicants with multiple transcripts should remember that it may take the college or university issuing the transcripts several weeks to send the documents to SF State. To ensure more rapid processing, applicants should gather official University-sealed transcripts from each institution previously attended, place them together in the same large envelope and submit them by mail or in person to

Graduate Admissions
San Francisco State University
1600 Holloway Avenue (ADM 250)
San Francisco, CA 94132-4013

eTranscripts will be accepted from participating universities and should be sent to gradstdy@sfsu.edu.

Transfer Credit from Other Institutions, including graduate courses taken at another university, are not transferable to the College of Business Certificate in Ethics & Compliance program.

Be mindful of the University and College of Business certificate program deadlines. University deadlines are found at: http://grad.sfsu.edu/program-deadline-dom and the Business Certificate in Ethics & Compliance application deadlines are July 15 for Fall admission and November 1 for Spring admission. Evaluation of a student application will not be initiated until all University application materials have been received. Admissions decisions for student acceptance/decline for the program will be 4–6 weeks after all transcripts are received.

Notice of Admission or Denial
After review of all application materials, the College of Business Certificate in Ethics & Compliance admission committee will notify the SF State Graduate Admissions office of their admission recommendations. Applicants will be formally notified of their admission status 4–6 weeks after all transcripts and records are received with receipt of the official SF State Graduate Admission Notification Letter, issued by the SF State Division of Graduate Studies. Letters of admission from the Business Certificate program received prior to the official SF State Admission Notification Letter are not binding. Applicants who are denied by either the University or the College of Business Certificate program will receive notification of denial from the Division of Graduate Studies. Applicants can monitor their admission status online on the SF State Gateway, which can be accessed 24/7 from the Graduate Studies or University main web pages.

Admission status as Post-baccalaureate Unclassified: Students admitted to the Graduate Business Certificate in Ethics & Compliance program will register for classes as Post-baccalaureate Unclassified students and should contact the College of Business Graduate Studies office for scheduling an advisor meeting prior to registering for the certificate courses.

Certificate in Accounting
General Information
A graduate-level academic certificate in accounting is offered to those wishing to reach the eligibility requirement of 150 credits of coursework to practice as a Certified Public Accountant (CPA) in California.

This may also appeal to individuals working in accounting who wish to update their knowledge and skills. Students in this program will be able to test the waters before committing to a longer program of study such as the Master of Science in Accountancy (M.S.A.) degree. This program is also appropriate for individuals with accounting degrees from other countries who wish to prepare for the CPA exam by taking courses specific to American accounting regulations.

Who can apply
Individuals with a bachelor’s degree, at least a 3.0 undergraduate GPA, and a basic knowledge of financial accounting provided by the Foundation BUS 780 course (or equivalent, e.g., ACCT 100) are eligible to apply for the certificate in accounting.

Program features
The certificate offers students flexibility in choosing from a variety of courses in different areas of accounting. The program is held at the San Francisco State University Downtown Campus, close to the financial district with plenty of opportunities for part-time and full-time work.

Learning outcomes
Develop key skills to prepare you for the certified public accounting examination and a professional career in accounting, including:

- Financial Reporting
- Auditing
- Ethics
- Business Law
- Taxation
- Cost Accounting

Certificate in Accounting – 9 units
Curriculum
Select three graduate level Accounting courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 800</td>
<td>Financial Accounting I</td>
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<tr>
<td>ACCT 801</td>
<td>Financial Accounting II</td>
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<td>ACCT 802</td>
<td>Strategic Management Accounting</td>
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<td>ACCT 803</td>
<td>Auditing Principles and Practice</td>
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<tr>
<td>ACCT 804</td>
<td>Legal and Professional Responsibilities in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 811</td>
<td>Introduction to Federal Tax</td>
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<tr>
<td>ACCT 812</td>
<td>Advanced Federal Taxation</td>
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<tr>
<td>ACCT 818</td>
<td>Accounting Ethics</td>
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<tr>
<td>ACCT 831</td>
<td>Financial Statement Analysis</td>
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<tr>
<td>ACCT 848</td>
<td>Seminar in Cost Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>
We’re here to answer your questions.

Graduate advisers
Professor Theresa Hammond thammond@sfsu.edu
Professor Katie Hetherton kkmh@sfsu.edu
Professor Su-Jane Hsieh sjhsieh@sfsu.edu

Certificate in Commercial Real Estate for Finance Majors

The Certificate in Commercial Real Estate is open only to B.S. Finance majors.
The Building Owners and Managers Association, San Francisco Foundation (BOMA SF Foundation) has partnered with SF State to provide support for several courses in commercial real estate. Students earn a Bachelor of Science degree in Business Administration with a Concentration in Finance and a Certificate in Commercial Real Estate.

Career Opportunities

According to BOMA SF Foundation, "one of the most demanding issues facing the commercial real estate industry today is how to replace a large aging workforce soon to retire". Jobs with great compensation and opportunities for career advancement are available in the commercial real estate industry, including property management, facilities management, asset and portfolio managers, real estate leasing and brokerage, and building engineering.

Commercial Real Estate Certificate – 12 units

To earn a certificate in Commercial Real Estate (CRE), students must satisfy the following three requirements:
1. Completion of the following four courses:
   - FIN 365 Real Estate Principles 3
   - FIN 370 Fundamentals of Real Estate 3
   - FIN 371 Commercial Real Estate Financial Management 3
   - FIN 372 Commercial Leasing and Development 3

2. Earn an overall GPA of 2.0 across these four courses.

3. Successful completion of the finance major.

Commercial Real Estate Certificate Specifics

Finance majors must complete the requirements of their B.S. degree in business administration with a concentration in finance, plus a minimum of two additional courses.
- Five required finance concentration courses: FIN 303 or FIN 357, FIN 351, FIN 353, FIN 355, and FIN 536.
- Four required CRE finance courses: FIN 365, FIN 370, FIN 371 and FIN 372.

FIN 370, FIN 371, and FIN 372 are 100% funded by the Building Owners & Managers Association San Francisco Foundation (BOMA SF Foundation). The certificate will be branded with BOMA SF Foundation’s sponsorship.

Certificate in Information Technology Auditing

General Information

The Certificate in Information Technology Auditing, offered by the Department of Information Systems, is designed to meet the needs of professionals with academic preparation and work experience in related fields by teaching concepts and applications in the area of information technology auditing. The certificate is focused on networking security issues from both the theoretical and practical perspectives. It is a coherent set of academic courses that does not lead to a degree in information technology auditing. The award of a completion certificate means the holder has completed the required courses that will help prepare them to sit for professional examinations.

The program serves the needs of non-matriculated students who have an appropriate academic background as well as full-time work experience in related fields and who wish to gain knowledge in the area of information technology auditing. It is designed to service the business community by helping fulfill the growing demand for specialists in this area.

Admission to the program is limited and is based on the appropriateness of the students' academic background and work experience. In order to be admitted to the certificate program, a candidate must have completed at least 60 units of undergraduate courses with a GPA of at least 2.7 in all courses.

The courses are graded on an A-F basis. A minimum grade of C- must be maintained in all course work as well as an overall B average. Before completing the program, all candidates must demonstrate the appropriate level of writing competency as prescribed by the program.

Information Technology Auditing

Certificate – 36 units

Required Courses (9 units)
- ISYS 463 Information Systems Analysis and Design 3
- ISYS 464 Managing Enterprise Data 3
- ISYS 565 Managing Enterprise Networks 3

Upper Division Electives (27 units)
Selected on advisement.

Depending on the candidate’s formal education and business experience, additional courses could be required as prerequisites to the above curriculum. Because of the possible prerequisite requirements, a determination of the total curriculum by the certificate advisor must be made before a candidate is accepted into the program.

Certificate in International Business

Purpose

The Certificate in International Business is designed to offer international students and non-matriculated U.S. residents the opportunity to acquire competencies in international business in two semesters. The program consists of eight specified courses that focus on conceptual, theoretical, and practical skills as well as overall knowledge of international business. Although the program does not lead to a degree in international business, it prepares students to seek a career or advancement in international
business. The award of a certificate means the holder has completed the required courses at an acceptable level of academic accomplishment. The certificate indicates to a prospective employer that the University validates the certificate program in international business.

**Admission Requirements**
Selection for admission to the program will be based on student objectives, academic background, and recommendations as appropriate. In order to be admitted to the program, a candidate should have completed the equivalent of 56 units or more of undergraduate courses through course work and/or appropriate professional or other preparation. Grades in coursework completed should be of an average level equivalent to a GPA of 2.3 or higher on a 4.0 U.S. scale, or an equivalent combination of educational and professional preparation, in her/his home country. English language ability must be demonstrated by adequate scores on the TOEFL examination (Test of English as a Foreign Language), TOEIC examination (Test of English for International Communication), or certification by appropriate academic personnel.

**Admission Procedures**
All candidates must complete the application forms for the Certificate in International Business, which are available from the Department of International Business and the College of Extended Learning. Students will be notified of their admittance status by the program coordinator. The coordinator will arrange for student registration through Open University on a space-available basis.

**Written English Proficiency Requirement**
English proficiency at the conclusion of the program will be determined through evaluation of written papers in IBUS 590. Satisfactory performance in writing is required for both passing the IBUS 590 course and for completing the program.

**Curriculum**
Students must complete two semesters of course work from international business core and specialized courses. Students who have specific educational or career needs may be allowed to vary selection of courses in the program after consulting with and obtaining written approval from the program coordinator.

**International Business Certificate – 24 units**

**First Semester (12 units)**
- IBUS 330 International Business and Multicultural Relations 3
- IBUS 430 Import-Export Management and Small Business Operations 3
- IBUS 681 Seminar in Comparative Management 3

**Electives**
Select one of the following area study courses: 3
- IBUS 591 Doing Business in Latin America
- IBUS 592 Doing Business in Greater China
- IBUS 593 Doing Business in Europe
- IBUS 594 Doing Business in Asia-Pacific Countries
- IBUS 596 Doing Business in Japan
- IBUS 598 Doing Business in Emerging Markets

**Second Semester (12 units)**
- IBUS 590 International Environmental Analysis 3
- IBUS 690 Global Strategic Management 3

**Electives**
Select two of the following: 6
- IBUS 440 Advanced Import-Export Management
- IBUS 517 Legal Environment of World Business
- IBUS 531 Cross-Cultural Innovation and Creativity in Business and Management
- IBUS 566 Careers in International Business
- IBUS 567 Internship in International Business
- IBUS 618 International Human Resource Management
- IBUS 620 Research in International Business and the Global Market
- IBUS 638 Global Leadership and Cultural Competencies
- IBUS 659 Introduction to International Business Negotiation
- IBUS 676 Social Entrepreneurship in a Global Context
- IBUS 699 Independent Study

**Award of the Certificate**
The certificate will be awarded by the dean of the College of Extended Learning, and will also be signed by the coordinator of the certificate program. Notice of issuance of the certificate will be entered on the student’s official academic record.

**Certificate in the Study of Public Accountancy**

**General Information**
This program is currently under review for discontinuance.

The Certificate in the Study of Public Accountancy program targets SF State matriculated business students as well as students pursuing or possessing an undergraduate degree in business related disciplines from other accredited institutions who are interested in the field of public accounting. Students in this program will find that it will assist them in preparation to become a Certified Public Accountant (CPA). Completion of this certificate itself does not represent CPA certification. The certificate program is offered through Open University in conjunction with the Department of Accounting and reflects what the American Institute of Certified Public Accountants regards as the common body of knowledge for CPAs. The content of the program also enhances accounting students’ formal business education.

SF State matriculated undergraduate business students must pass the ACCT 301 pretest and have completed 56 units of college credits with a minimum 2.0 grade point average to be eligible for the program. Non-SF State matriculated business students, if not already holding an undergraduate business degree, must have completed 56 units of college credits with a minimum 2.0 grade point average to be considered for admission.
The Study of Public Accountancy
Certificate – 30 Units
Curriculum
Select ten of the following courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 301</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 302</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 305</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 501</td>
<td>Advanced Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 504</td>
<td>Government and Non-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 506</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 507</td>
<td>Information Systems Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 508</td>
<td>Federal Tax Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 509</td>
<td>Federal Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 513</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 518</td>
<td>Accounting Fraud Examination</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 551</td>
<td>Principles of Internal Auditing</td>
<td>3</td>
</tr>
</tbody>
</table>

A maximum of five equivalent courses taken from other accredited institutions can be used to waive the required courses above. Depending on the candidate’s formal education, additional courses could be required as prerequisites to, or used as a substitution for, the above curriculum. A determination of the total curriculum by the certificate director must be made before a candidate is accepted into the program. Students must maintain a 3.0 GPA in the certificate course work to earn the certificate.

English Proficiency Requirement
Before completing the certificate program, all candidates before spring 2014 must pass ENG 414 and candidates after spring 2014 must pass a GWAR courses with a grade of C or better. Candidates who have taken and passed an upper division expository writing course at another institution may apply for a waiver of the English proficiency requirement.
EDUCATION DEGREES, CERTIFICATES, AND TEACHING AND EDUCATIONAL SPECIALIST CREDENTIALS

Graduate College of Education
Interim Dean: Nancy B. Robinson

Departments
Elementary Education
Equity, Leadership Studies, and Instructional Technologies
Secondary Education
Special Education & Communicative Disorders

The primary mission of the Graduate College of Education is to prepare reflective, transformative educators, clinicians, leaders, and scholars who advance the broad profession of education across the life span through excellence in the art and science of teaching and learning, research on critical issues in education and communicative disorders, integration of new technologies, and commitment to equity and social justice. Our programs are designed to meet global challenges through authentic learning experiences in academic and clinical environments that are grounded in our commitment to inclusiveness, integrity, community, social action, and evidence-based practice.

Core values of the GCOE are adapted from the SF State Strategic Plan, including: Courage, Life of the Mind, Equity, Community, and Resilience. These values resonate with the GCOE and our commitment to social justice. We embrace these five values and have adapted them to align with the mission of the GCOE.

- **Courage**: Courage enables us to develop a sense of agency that engages students, staff, and faculty in speaking their voices and having their voices heard in forums that honor the contributions of all.
- **Life of the Mind**: Our programs are informed by research, our research is informed by evidence-based practice, and our practice is grounded in our professional commitments as educators, activists, practitioners and clinicians. Collaboration with communities is an integral component of our scholarship, with a focus on uncovering funds of knowledge and community cultural wealth.
- **Equity**: Our focus on equity addresses a broad range of persistent, structural social justice issues, including race, class, gender, sexual orientation, disability, and other forms of marginalization in the 21st century, globalized California.
- **Community**: Our programs promote a climate of inspiration and inclusivity, and are characterized by strong linkages to local and global communities at all levels, birth through adult, in formal and non-formal educational contexts.
- **Resilience**: Our work in collaboration with diverse school, community and clinical settings implies that resilience takes many forms, ranging from promoting transformative resistance to fostering global sustainability, creating an environment that is marked by the generosity of spirit, supporting a thriving environment of mutually supportive human relations.

In order to carry out the mission and vision of the college as reflected in these core values, the Graduate College of Education offers certificates, credentials, masters’ degrees in education (in specific disciplines), doctorates in education and philosophy degrees (jointly with UC Berkeley). The chart below lists the programs and degree offerings in the Graduate College of Education.

### Degrees, Credentials, and Certificates in the Graduate College of Education

#### Master's Degrees

<table>
<thead>
<tr>
<th>Name of degree or program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Arts in Education, with concentrations in:</td>
<td></td>
</tr>
<tr>
<td>Adult Education</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Educational Administration</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Equity &amp; Social Justice in Education</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Instructional Technologies</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Language &amp; Literacy Education</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>Secondary Education</td>
</tr>
<tr>
<td>Special Interest</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Master of Arts in Special Education (Early Childhood Special Education, Mild/Moderate Disabilities, Moderate/Severe Disabilities, Orientation &amp; Mobility, Visual Impairment)</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Master of Science in Communicative Disorders (Speech-Language Pathology)</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
</tbody>
</table>

#### Teaching & Services Credentials

<table>
<thead>
<tr>
<th>Name of degree or program</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Services (Elementary &amp; High School Principal)</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Bilingual Authorization</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Clinical or Rehabilitative Services (Orientation &amp; Mobility)</td>
<td>Special Education</td>
</tr>
<tr>
<td>Education Specialist (Special Education)</td>
<td>Special Education</td>
</tr>
<tr>
<td>Multiple Subject Instruction (Elementary Education)</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Pupil Personnel Services</td>
<td>Counseling, Psychology, &amp; Social Work</td>
</tr>
<tr>
<td>Reading and Language Arts Specialist</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Single Subject Instruction (Middle and High School)</td>
<td>Secondary Education</td>
</tr>
<tr>
<td>Name of degree or program</td>
<td>Department</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Speech-Language Pathology Services Credential</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Graduate Certificates</td>
<td></td>
</tr>
<tr>
<td>Name of degree or program</td>
<td>Department</td>
</tr>
<tr>
<td>Augmentative and Alternative Communication</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Autism Spectrum</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Early Childhood Special Education</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Reading</td>
<td>Elementary Education</td>
</tr>
<tr>
<td>Training Systems Development</td>
<td>Equity, Leadership Studies, and Instructional Technologies</td>
</tr>
<tr>
<td>Doctoral Degrees</td>
<td></td>
</tr>
<tr>
<td>Name of degree or program</td>
<td>Department</td>
</tr>
<tr>
<td>Ph.D. in Education: Concentration in Special Education</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Ed.D. in Educational Leadership</td>
<td>Graduate College of Education</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td></td>
</tr>
<tr>
<td>Name of degree or program</td>
<td>Department</td>
</tr>
<tr>
<td>Bachelor of Science in Communicative Disorders</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
<tr>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>Name of degree or program</td>
<td>Department</td>
</tr>
<tr>
<td>Education</td>
<td>Graduate College of Education</td>
</tr>
<tr>
<td>Special Education</td>
<td>Special Education &amp; Communicative Disorders</td>
</tr>
</tbody>
</table>

For an overview of the paths one might pursue in order to become a teacher or professor, or to get started on another career in education, please visit Teaching and Educational Services Credential Programs. (p. 343)
Equity, Leadership Studies, and Instructional Technologies (ELSIT)

Graduate College of Education

Dean: Interim Dean, Nancy Robinson

Department of Equity, Leadership Studies, and Instructional Technologies (ELSIT)

Burk Hall, Room 239
Phone: (415) 338–1653
Fax: (415) 338–0568

Chair: Doris Flowers

Vision and Mission

The Department of Equity, Leadership Studies, and Instructional Technologies (ELSIT) is a dynamic leader in integrating the following areas:

- Educational leadership and administration
- Teaching, learning, and research
- Lifelong learning and scholarship
- Emerging technologies and pedagogies
- Collaboration and networking.

Social Justice Leadership

The department prepares professionals to critically examine inequities and work to eradicate them through practices that reduce gaps in achievement. It provides opportunities to learn and enables all individuals to reach their full educational potential.

Culture of Community

The department builds a community of practice across faculty and students to prepare education professionals to be innovative thinkers and problem solvers. Students acquire the interpersonal fluency and digital expertise required to engage in leadership as socially responsible practitioners and global citizens.

Program Scope and Career Outlook

The Department of Equity, Leadership Studies, and Instructional Technologies responds actively to the changing needs of schools, communities, and other institutions and provides creative, professional leadership.

The department attracts students from a variety of backgrounds with diverse career goals. Through faculty advisement, a program is planned for each student to match prior training and experience, current interests, and career aspirations. The programs lead to professional roles in public and private schools, government agencies, social agencies, and industry. Possible career opportunities include leadership positions in elementary and secondary schools and community colleges; staff training positions; adult education leadership or practitioner roles; and positions in research, measurement, and evaluation.

The department offers the Preliminary Administrative Services credential. See Credential Programs (p. 28) for more information. Students must submit a CSU Mentor graduate application and a department application.

Professors

Curtis, Dubin, Flowers, Hemphill, Lee, Perea, Pogrow

Associate Professors

Duncan-Andrade, Hyun

Assistant Professors

Celoria, Donohue, Merchant

- Masters
  - Master of Arts in Education: Concentration in Adult Education (p. 299)
  - Master of Arts in Education: Concentration in Educational Administration (p. 300)
  - Master of Arts in Education: Concentration in Equity and Social Justice in Education (p. 302)
  - Master of Arts in Education: Concentration in Instructional Technologies (p. 302)
  - Master of Arts in Education: Concentration in Special Interest Area (p. 304)

Certificates

- Certificate in Training Systems Development (p. 298)

Certificate in Training Systems Development

The Certificate in Training Systems Development program is designed for students who do not wish to earn a masters degree or for those who have already earned a master’s degree in a related field. The purpose of the certificate is to develop and update skills and knowledge in the training design and development area in order for students to advance to new positions in corporate or public agency training departments. It offers professional training program developers an opportunity to strengthen and augment their skills. This program is especially useful to students who already hold a masters degree in a related field, such as industrial psychology, broadcast and communication arts, or human resource development or for those who need documentation in training competencies to meet governmental requirements.

Admission to the Program

Applicants to the program must meet the university requirements for all graduate majors. In addition, the department requires that applicants schedule an interview with the department chair to review the applicant’s interest and preparation in the field. For students to advance to this status, they must indicate that they have academic preparation or practical experience. Applicants must also submit a two-page (500–1,000 word) statement of purpose. The statement of purpose should clearly explain the applicant’s career goals and how the certificate will help achieve those goals. The statement of purpose should represent the quality of an applicant’s English-language writing ability.

Students should have foundational competency in computer skills.

Written English Proficiency Requirement

Students must meet Level One written English proficiency by submitting a two-page (500–1,000 word) statement of purpose that will be evaluated
by the department admissions committee. Students who receive an unsatisfactory evaluation of their written application materials must pass an English skills development course with a grade of B or better. The course will be selected in consultation with an advisor.

Program Requirements
Students are required to take nine units of core requirements and nine units of electives. Students select electives based on their interests in consultation with an advisor.

Core Requirements
During the first year of study, all students must take ITEC 800, ITEC 801 and ITEC 850. Students must receive a grade of B or higher in each of the required core courses to receive the certificate.

Electives
Students choose nine units of electives. Since the certificate is focused on training design and development, it is strongly suggested that students choose from that group. However, the choice of electives will depend on the students’ interests, needs, and backgrounds.

Training Systems Development, Certificate – Minimum of 18 units
Core Requirements (9 units)
ITEC 800 Theoretical Foundations of Instructional Technologies 3
ITEC 801 Instructional Systems Design 3
ITEC 850 Design and Management of Training Projects 3

Electives (9 units)
Select three of the following: 9
ITEC 805 Contemporary Developments in Instructional Technologies (topic)
ITEC 825 Formative Evaluation and Usability Testing
ITEC 830 Design of Learning Environments with Emerging Technologies
ITEC 852 Instructional Technologies in Organizations
ITEC 860 Distance Education
ITEC 865 E-Learning Design and Development

Award of Certificate
When all requirements have been met, the student must complete the certificate approved program form. The form, along with transcripts indicating satisfactory completion of all certificate requirements, must be submitted to the chair of the Department of Equity, Leadership Studies, and Instructional Technologies. The chair will then initiate issuance of a certificate to be signed by the department and the dean of graduate studies. Award of the certificate will be entered on the student’s transcript.

Supplementary Authorization to the Teaching Credential
Teachers who have earned a single or multiple-subject teaching credential can earn a supplementary authorization in instructional computing by completing 12 graduate units in appropriate courses in the department. Courses must be selected from any of the following focus areas:

Software Evaluation and Selection
ITEC 715 Foundations of Instructional Multimedia 3
ITEC 815 Integration of Instructional Computing 3
ITEC 830 Design of Learning Environments with Emerging Technologies 3
ITEC 860 Distance Education 3
ITEC 865 E-Learning Design and Development 3

Hardware Operation and Functions
ITEC 715 Foundations of Instructional Multimedia 3
ITEC 815 Integration of Instructional Computing 3
ITEC 816 Computer Resource Specialist 3

Classroom Uses of Computers
ITEC 815 Integration of Instructional Computing 3
ITEC 816 Computer Resource Specialist 3
ITEC 830 Design of Learning Environments with Emerging Technologies 3
ITEC 860 Distance Education 3

The supplementary authorization can be used to verify competencies as a computer laboratory manager or for computer-based teaching. For further information, contact the department.

Master of Arts in Education: Concentration in Adult Education

Graduate Advisors: Flowers, Lee

The program is designed for graduate students who wish to pursue advanced studies in adult learning and educational processes. Program graduates work as leaders in a wide variety of contexts addressing the increasing need for adult education activities in literacy programs, community colleges, the workplace, community-based organizations, and many other settings.

Admission to Program
Entry into the program is open to applicants with a bachelor’s degree from an accredited institution and a 3.0 grade point average in the last 60 units of college course work. Prospective students must submit a CSU graduate application and a department application. In addition to the department application form, applicants must also submit to the department two letters of recommendation, a statement of purpose and transcripts. A faculty committee reviews department applications for admission. Students are admitted in both fall and spring semesters.

Written English Proficiency Requirement
Level One
During the first semester in a program and before filing Advancement to Candidacy (ATC) form, each student must demonstrate graduate-level English writing ability. If remedial work is necessary, the student shall be expected to complete prescribed courses in English, or other corrective work, at a level acceptable to the department.

Level Two
The second assessment occurs within the Culminating Experience course (i.e., either ISED 895 or ISED 898) and by the time an ATC is approved and filed.
**Enrollment Requirement**

Students who were admitted to the MA program before fall 2008 must enroll in the University during the semester of anticipated graduation. To meet this requirement, students may choose to enroll in a zero-unit designated College of Extended Learning course established for this purpose.

Students admitted fall 2008 and beyond have the semester they enroll in the culminating experience course and the following semester to complete their degree requirements. Those who need time beyond the two semesters to complete the culminating experience requirement must enroll in a zero-unit designated College of Extended Learning course every subsequent semester until the requirement is completed.

Students admitted fall 2013 and beyond have only the semester they enroll in the culminating experience course to complete their degree requirements. Those who need additional time beyond that semester must enroll in a three units course, for each additional semester until the culminating experience requirement is completed. Contact the college for further information.

For more information, please contact the department at (415) 338–1653 or come to Burk Hall 239.

**Education (M.A.): Concentration in Adult Education – Minimum 30 Units**

**Required Courses (12 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 706</td>
<td>Principles and Methods of Adult and Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 707</td>
<td>Planning and Funding Education and Community Programs</td>
<td>3</td>
</tr>
<tr>
<td>ISED 735</td>
<td>Seminar on the Adult Learner</td>
<td>3</td>
</tr>
<tr>
<td>ISED 736</td>
<td>Leadership and Policy for Community and Non-Formal Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research Methods (3 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (12 Units)**

Units selected that reflect student’s individual goals. May be chosen from courses below or from other departments or colleges.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 738</td>
<td>Critical and Postmodern Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ISED 739</td>
<td>Education and Community Development: Equity and Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ISED 740</td>
<td>Education &amp; Globalization: Issues in Comparative and International Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 747</td>
<td>Culture, Language, and Society in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 748</td>
<td>Culture, Cognition, and Power Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 781</td>
<td>Educational Praxis: Curriculum Development and Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ISED 782</td>
<td>Practicum in Adult Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Culminating Experience (3 Units)**

Prerequisite: ISED 797

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 895</td>
<td>Field Study</td>
<td>3</td>
</tr>
</tbody>
</table>

**Master of Arts in Education: Concentration in Educational Administration**

or ISED 898  Master’s Thesis

**Faculty**—Celoria

Lecturers: La Torre-Derby, Konopka, Sheppard, Sims

**Faculty Adviser**—Davide Celoria

An excellent faculty, all of whom have held leadership positions in school systems, higher education, and/or private and governmental organizations, staffs the program in educational administration. Each faculty member has developed an individualized area of specialization designed to implement the program and support other activities of the department.

The program in educational administration has been revised to reflect the knowledge base and skill requirements of emerging leadership roles. The curriculum generally includes the following activities: theory and practice under simulated conditions in the classroom; application and analysis of theory in real-life situations, mostly the candidate’s school and/or district; and application and participate in field practicums supervised by a school or district administrator.

The Master of Arts is regarded as the professional degree for educational administrators. It is possible for candidates who meet the California Commission on Teacher Credentialing prerequisites required for the five-year preliminary administrative services credential to concurrently earn both the preliminary five-year administrative services credential and the master’s degree. Students who do not meet the prerequisites required for the preliminary administrative services credential are eligible to earn a master’s degree only.

**Admission to Program**

Entry into the master’s program is open to applicants with a bachelor’s degree from an accredited institution and a 3.0 grade point average in the last 60 units of college course work. Prospective students must submit a CSU graduate application and a department application. In addition to the department application form, applicants must also submit to the department two letters of recommendation, a statement of purpose and transcripts. A faculty committee regularly reviews applications for admission. Students are admitted in both fall and spring semesters.

**Written English Proficiency Requirement**

**Level One**

During the first semester in a program, each student must demonstrate graduate-level English writing ability. If remedial work is necessary, the student shall be expected to complete prescribed courses in English, or other corrective work at a level acceptable to the department.

**Level Two**

The second assessment occurs within EDAD 892.

Prerequisites required for the five-year preliminary administrative services credential are the following:

- Baccalaureate degree, except in professional education, from a regionally-accredited college or university. (Required for admission)
The following:

- California Basic Educational Skills Test (CBEST)
- CSET Multiple Subjects Test plus Writing Skills Test
- A Commission-approved out-of-state basic skills exam
- CSU Early Assessment Program (EAP) or the CSU Placement Examinations
- English Placement Test (EPT) & Entry Level Math (ELM)

- A minimum of five years of successful full-time teaching or pupil personnel or health services, or library services experience (or combination) in public schools or private schools of equal status. Community college experience is not acceptable.

Upon completion of the program, the candidate will receive a preliminary administrative services credential or a certificate of eligibility credential if an administrator position is not yet secured. The certificate of eligibility authorizes one to seek initial employment as an administrator but does not authorize actual administrative service.

**Internship Program**

The internship program is available to students who are offered administrative positions and need the administrative internship credential. Entry into this program requires a request from the district office to the chair of the Department of Equity, Leadership Studies, and Instructional Technologies. Intern candidates must meet the criteria for the preliminary administrative services program as stated above prior to assuming internship administrative responsibilities.

Internship program students enroll in the same courses as preliminary administrative services program candidates with the exception of the following courses that are only for students admitted into the internship program with prior approval by the internship faculty advisor.

EDAD 822 may be substituted for EDAD 733; EDAD 823 may be substituted for EDAD 743; EDAD 824 may be substituted for EDAD 753 (all three unit courses)

For additional information, please contact the ELSIT department office at (415) 338-1653 or Burk Hall 239.

**Preliminary Administrative Services Credential Course Requirements – 33 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 713</td>
<td>Administrative Processes</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 714</td>
<td>Practicum: Site Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 723</td>
<td>School Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 733</td>
<td>Curricular Leadership for Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 743</td>
<td>Educational Planning, Technology, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 753</td>
<td>Human Resource Administration in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 763</td>
<td>Law and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 774</td>
<td>Change Processes and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 784</td>
<td>Special Education Administration</td>
<td>3</td>
</tr>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**EDAD 892 Internship - Educational Administration II**

**Note:** Entry-level assessment of administrative competence is conducted at EDAD 713 and EDAD 892 for the exit-level assessment.

**Clear Administrative Services Credential**

Prerequisites for admission are the following:

- A preliminary administrative services credential.
- A Clear California teaching credential or pupil personnel services credential, health services credential, library services credential, designated subjects credential with a baccalaureate degree, or clinical or rehabilitative services credential.
- Two years of successful, full-time employment in an administrative position requiring a preliminary administrative services credential.

The coursework designed to prepare candidates for the clear administrative services credential is listed below. All candidates interested in admission to the program must first enroll and be assessed in EDAD 850. The student’s advisory committee performs an exit assessment on the student’s professional administrative practicum/competence.

**Continuous Enrollment Requirement**

Students who were admitted to the master’s program before fall 2008 must be enrolled in the University during the semester of anticipated graduation. To meet this requirement, many students choose to enroll in a zero-unit designated College of Extended Learning course established for this purpose.

Students admitted fall 2008 and beyond have the semester they enroll in the culminating experience course and the following semester to complete their degree requirements. Those who need additional time beyond the two semesters to complete the requirement must enroll in a zero-unit designated College of Extended Learning course every subsequent semester until the requirement is completed.

Students admitted fall 2013 and beyond have the semester they enroll in the culminating experience course to complete their degree requirements. Those who need additional time beyond that semester must enroll in EDAD 899 (3 units), for each additional semester, until the culminating experience is completed.

For more information, please contact the department or the Credential and Graduate Services Center (BH 244).

**Education (M.A.): Concentration in Educational Administration – Minimum 33 units**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 713</td>
<td>Administrative Processes</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 714</td>
<td>Practicum: Site Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 723</td>
<td>School Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 733</td>
<td>Curricular Leadership for Multicultural Education</td>
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<tr>
<td>EDAD 753</td>
<td>Human Resource Administration in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 763</td>
<td>Law and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 774</td>
<td>Change Processes and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 784</td>
<td>Special Education Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 892</td>
<td>Internship - Educational Administration II</td>
<td>3</td>
</tr>
</tbody>
</table>
ISED 797 Seminar in Educational Research

Master of Arts in Education: Concentration in Equity and Social Justice in Education

Graduate Advisors: Flowers, Hemphill, Lee

The program addresses current issues in culture, language, ethnic, and gender diversity in education. The program focuses on the theoretical, historical, and political perspectives of race, class, gender, language, and sexual orientation as they apply to the theory and practice of education. In so doing, equity and social justice become key end goals for the educational process. Graduates of this program are able to work on related issues in public education, non-profit groups, public service, and private organizations.

Admission to the Program

Entry into the Master’s program is open to applicants with a Bachelor’s degree from an accredited institution and a 3.0 grade point average in the last 60 units of college course work. Prospective students must submit a CSU Graduate Application and a Department Application. In addition to the Department Application form, applicants must also submit to the Department two letters of recommendation, a statement of purpose and transcripts. A faculty committee reviews applications for admission on a regular basis. Students are admitted in both fall and spring semesters.

Written English Proficiency Requirement

Level One

During the first semester in a program and before filing an Advancement to Candidacy (ATC) form, each student must demonstrate graduate-level English writing ability. If remedial work is necessary, the student must complete prescribed courses in English or other corrective work, at a level acceptable to the department.

Level Two

The second assessment occurs within the Culminating Experience course (i.e. either ISED 895 or ISED 898) and by the time an ATC is approved and filed.

Continuous Enrollment Requirement

Students admitted to the master’s program before fall 2008 must be enrolled in the University during the semester of anticipated graduation. To meet this requirement, many students choose to enroll in a zero-unit designated College of Extended Learning course established for this purpose.

Students admitted fall 2008 and beyond have the semester they enroll in the culminating experience course and the following semester to complete their degree requirements. Those students who need additional time beyond the two semesters to complete the requirement must enroll in a zero unit designated College of Extended Learning course every subsequent semester until the culminating experience is completed.

Students admitted fall 2013 and beyond have the semester they enroll in the culminating experience course to complete their degree requirements. Those who need additional time beyond that semester must enroll in EDUC 499 for each additional semester, until the culminating experience is completed.

For more information, please contact the department at (415) 338–1653 or Burk Hall 239.

Students must complete at least 24 units in courses designated by the prefix ISED. These courses include all core and required classes. In addition, pursuant to Graduate Division requirements, a minimum of one-half the total number of units taken for the degree must be at the 700–899 level.

Education (M.A.): Concentration in Equity and Social Justice in Education — 30 units

Core (18 units)

Select 18 units of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 715</td>
<td>Equal Opportunity in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 716</td>
<td>Literacy and Cross-cultural Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 717</td>
<td>Social Foundation for Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 736</td>
<td>Leadership and Policy for Community and Non-Formal Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 738</td>
<td>Critical and Postmodern Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ISED 739</td>
<td>Education and Community Development: Equity and Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ISED 740</td>
<td>Education &amp; Globalization: Issues in Comparative and International Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 747</td>
<td>Culture, Language, and Society in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 748</td>
<td>Culture, Cognition, and Power Issues in Education</td>
<td>3</td>
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</table>

Research Methods (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives on Advisement (6 units)

Electives may be selected from the courses above or from ethnic studies, women studies, or other related disciplines upon approval by the program advisor.

Culminating Experience (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 895</td>
<td>Field Study</td>
<td>3</td>
</tr>
<tr>
<td>or ISED 898</td>
<td>Master's Thesis</td>
<td></td>
</tr>
</tbody>
</table>

Master of Arts in Education: Concentration in Instructional Technologies

Graduate Advisors: Donohue, Merchant

The Department of Equity, Leadership Studies, and Instructional Technologies offers the Master of Arts in Education with a concentration in Instructional Technologies, and an 18-unit Certificate in Training Systems Development. The program prepares professionals in: online and e-learning instructional design, design of technology-based instruction for K–20 educators or trainers in a variety of business and industry environments, and design for problem-based learning solutions. The program also offers a California supplementary authorization in computer science for K–12 teachers who complete 12 units of coursework in the four required areas.

The ITEC program offers all courses online and many in blended learning environments with simultaneous in-class and online attendance using a
web conference system. The program accommodates distance learners and can be completed in an average of 3–5 semesters. Additional courses are offered in special Winter or Summer Sessions.

The program prepares participants for careers in the prestigious, fast-moving Instructional Design field. Students gain skills with traditional and emerging learning technologies, choosing courses in mobile applications, Web design, gamification, augmented/virtual reality, social networking and assistive/adaptive technologies. Students are introduced to a variety of pedagogies for learning from established to current learning strategies. Students create instruction for various learners, designing learning for mobile, e-learning, and face-to-face instruction using a number of software, hardware, and physical technologies. Graduates become instructional designers for corporations, industry, public service organizations, and classrooms. Alumni can be found around Bay Area companies and school districts as well as across the state. The program prepares students in traditional Instructional Systems Design methods as well as rapid prototyping, agile and design-based methodologies.

ITEC caters to the working adult with all courses offered in late afternoons or evening. Students develop a career pathway and a portfolio during their studies. For further information, contact either of the ITEC program coordinators: Dr. Patricia Donohue (pdonohue@sfsu.edu), or Dr. Zahira Merchant (zahiram@sfsu.edu).

Admission to the Program

Admission to the program in is a two-step process that should be completed simultaneously.

1. Apply to the University. Complete the on-line CSU Mentor application. Follow all other requirements for admission to the University by accessing http://grad.sfsu.edu/.

2. Meet Department requirements as noted:

Applicants should schedule an interview with the program coordinator to go over the applicant’s interest and preparation in the field. In addition, two letters of recommendation and a two-page (500–1,000 word) Statement of Purpose are required. Letters of recommendation should come from professionals who can attest to the applicant’s promise as a graduate student and professional educator. The statement of purpose should clearly explain the applicant’s educational and career goals and how the M.A. degree will help achieve those goals. The statement of purpose should represent the quality of an applicant’s English-language writing ability. Applicants must have basic computer literacies.

Written English Proficiency Requirement

Level One

Applicants must submit a writing sample in the form of a two-page (500–1,000 word) statement of purpose that will be evaluated by the department admissions committee. Students who receive an unsatisfactory evaluation of their written application materials may be admitted conditionally and required to earn a B or better in an English skills development course within the first two semesters. The course will be selected in consultation with an advisor.

Level Two

Level Two is satisfied by the successful completion of the culminating experience (ITEC 894 or ITEC 895).

Continuing Enrollment Requirement

Students admitted fall 2013 and beyond must meet the University’s continuous enrollment requirement that stipulates students be enrolled in their continuing experience course during the semester of anticipated graduation. Students must maintain enrollment every semester after they have registered in the ITEC 894 or ITEC 895 culminating experience courses. Students may miss one semester of enrollment in the middle of the program (before registering in the culminating experience course). Two consecutive semesters of absence will automatically drop the student from the program and university.

For more information, please contact the ELSIT Department: (415) 338–1653 or BH 239.

Core Requirements

Core requirements consist of 15 units of study. During the first year of study, students are advised to take ITEC 800 and ITEC 801. Students are also encouraged, though not required, to enroll in ITEC 700 for an overview of the instructional design field and career options. Based on their interests, students must also take one of the following courses before completing the program:

- ITEC 830 for their third core requirement, or
- ITEC 850 for their third core requirement, or
- ITEC 816 for their third core requirement.

- Students must receive a grade of B or higher in each of the required core courses to advance to candidacy.
- Completion of core requirements includes taking ISED 797 and ITEC 894 or ITEC 895.

Electives

Students choose 15 units of electives within the department or in related disciplines. Electives cross several lines of specialization that include the following:

1. E-Learning.
2. Multimedia Design and Development,
3. Training Design and Development,
4. Technology Integration for Teachers, and
5. Instructional Product Design.

Students should select electives in consultation with an advisor.

Education (M.A.): Concentration in Instructional Technologies — 30 Units

Core Requirements (6 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEC 800</td>
<td>Theoretical Foundations of Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 801</td>
<td>Instructional Systems Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Requirements (6 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 units from the following seminars:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEC 816</td>
<td>Computer Resource Specialist</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 830</td>
<td>Design of Learning Environments with Emerging Technologies</td>
<td></td>
</tr>
<tr>
<td>ITEC 850</td>
<td>Design and Management of Training Projects</td>
<td></td>
</tr>
</tbody>
</table>

303
Electives (15 Units)
See below

Culminating Experience Requirement (3 Units)
(See below for portfolio submission)

ITEC 894 Creative Work 3
ITEC 895 Field Study 3

The minimal requirement for graduation is 30 units. Based on individual student needs, background, and interests, the department may require some students to complete more than 30 units to attain the degree.

Electives
Elective Group One: E-Learning and Multimedia Design and Development

ITEC 715 Foundations of Instructional Multimedia 3
ITEC 740 Computer Design of Instructional Graphics I 3
ITEC 745 Instructional Web Authoring I 3
ITEC 770 Instructional Videography I (may be repeated twice for credit) 3
ITEC 823 Instructional Multimedia Tools: Flash I 3
ITEC 830 Design of Learning Environments with Emerging Technologies 3
ITEC 835 Instructional Multimedia Tools: FLASH II 3
ITEC 840 Computer Design of Instructional Graphics II 3
ITEC 845 Instructional Internet Authoring II 3
ITEC 860 Distance Education 3
ITEC 865 E-Learning Design and Development 3

Elective Group Two: Training Design and Development

ITEC 700 Strategic Approaches for Instructional Technologies (may be required for some students) 3
ITEC 720 Fieldwork in Educational Technology 3-5
ITEC 805 Contemporary Developments in Instructional Technologies (topic) 3
ITEC 825 Formative Evaluation and Usability Testing 3
ITEC 850 Design and Management of Training Projects 3
ITEC 852 Instructional Technologies in Organizations 3

Elective Group Three: Technology Integration for Teachers

ITEC 815 Integration of Instructional Computing 3
ITEC 816 Computer Resource Specialist 3
ITEC 842 Cognition, Mind, and Learning for Educators 3

Culminating Experience
Portfolio Submission
Before undertaking a culminating experience, students must submit, for departmental review and approval, a portfolio of three instructional projects that demonstrate their technical skill and instructional design competencies.

The culminating experience may be completed by one of two options: ITEC 894 or ITEC 895.

Creative Work Project Requirements
To complete a creative work, students must design, develop, and produce an instructional product. The instructional unit may be in any medium—print, video, multimedia, or web-based. The instructional design process must be documented in writing and include a review of the instructional significance of the product, description of the design and production process, and product usability review. Students must provide a CD-ROM that contains the instructional product and the design documents.

Field-Study Requirements
To complete the field study, students must design, develop, and produce an instructional design project, using the instructional systems process, from needs analysis to formative evaluation. The instructional unit may be in any medium—print, video, multimedia, or web-based. The instructional design process must be described in writing and include a review of the instructional need and significance of the project, research review, description of the design process, formative evaluation, and conclusions. Students must provide a CD-ROM that contains the instructional unit and the design documents.

Master of Arts in Education: Concentration in Special Interest Area

Graduate Advisors: Curtis, Hemphill, Hyun, Perea

The Master of Arts in Education, concentration in Special Interest Area allows graduate students to design and complete, under advisement, a program of specialized study that emphasizes a particular issue or problem in education. It is expected that students’ programs will be interdisciplinary in nature and that students will display considerable independence in identifying appropriate courses that will comprise their area of specialization. Applicants to the program must specify their area of interest and confer with a program advisor about objectives, study plans, and procedures prior to admission.

Admission to Program
Applicants to the program must specify an area of interest and confer with a program advisor about objectives, study plans, and procedures prior to admission. Entry into the master’s program is open to applicants with a bachelor’s degree from an accredited institution and a 3.0 grade point average in the last 60 units of college course work. Prospective students must submit a CSU Graduate Application and a department application. In addition to the department application form, applicants must also submit two letters of recommendation, a statement of purpose and transcripts. A faculty committee reviews applications for admission. Students are admitted in both fall and spring semesters.

Written English Proficiency Requirement
Level One
During the first semester in a program and before filing an Advancement to Candidacy (ATC) form, each student must demonstrate graduate-level English writing ability. If remedial work is necessary, the student shall be expected to complete prescribed courses in English, or other corrective work, at a level acceptable to the department.

Level Two
The second assessment occurs within the Culminating Experience course (i.e., either ISED 895 or ISED 898) and by the time an ATC is approved and filed.

Students are required to take a minimum of 15 units of course work in the Department of Equity, Leadership Studies, and Instructional Technologies. Nine of these units correspond to required course work (ISED 747, ISED 797, and either ISED 895, or ISED 898). The remaining six
units are elective course work selected in conjunction with the advisor. Students who have completed a teaching credential at SF State can apply up to 12 units of credential coursework towards their MA degree.

**Continuous Enrollment Requirement**

Students who were admitted to the master's program before fall 2008 must enroll in the University during the semester of anticipated graduation. To meet this requirement, many students choose to enroll in a zero unit designated College of Extended Learning course established for this purpose.

Students admitted fall 2008 and beyond have the semester they enroll in the culminating experience course and the following semester to complete their degree requirements. Those who need additional time beyond the two semesters to complete this requirement must enroll in a zero-unit designated College of Extended Learning course every subsequent semester until the requirement is completed.

Students admitted fall 2013 and beyond have the semester they enroll in the culminating experience course to complete their degree requirements. Those who need additional time beyond that semester must enroll in EDUC 499 each additional semester until the culminating experience requirement is completed. Contact the department for further information.

For more information, please contact the department at (415) 338–1653 or come to the department office in Burk Hall 239.

**Education (M.A.): Concentration in Special Interest Area — Minimum 30 Units**

**Core Requirements (6 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 747</td>
<td>Culture, Language, and Society in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Professional Education Courses**

Units selected on advisement (6 units must be ISED, ITEC, or EDAD courses) Recommended ELSIT Elective Courses (6–9 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 706</td>
<td>Principles and Methods of Adult and Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 707</td>
<td>Planning and Funding Education and Community Programs</td>
<td>3</td>
</tr>
<tr>
<td>ISED 715</td>
<td>Equal Opportunity in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 716</td>
<td>Literacy and Cross-cultural Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 717</td>
<td>Social Foundation for Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 735</td>
<td>Seminar on the Adult Learner</td>
<td>3</td>
</tr>
<tr>
<td>ISED 736</td>
<td>Leadership and Policy for Community and Non-Formal Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 738</td>
<td>Critical and Postmodern Pedagogies</td>
<td>3</td>
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<td>ISED 739</td>
<td>Education and Community Development: Equity and Diversity</td>
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</tr>
<tr>
<td>ISED 740</td>
<td>Education &amp; Globalization: Issues in Comparative and International Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 745</td>
<td>Practicum in a Multicultural Educational Setting</td>
<td>3</td>
</tr>
<tr>
<td>ISED 748</td>
<td>Culture, Cognition, and Power Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>ISED 749</td>
<td>Second Language Acquisition in the Elementary School</td>
<td>3</td>
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</tbody>
</table>

**Area of Specialization (12–15 Units)**

Can include up to 12 units of SF State teaching credential coursework. Units selected in an area of specialization.

**Culminating Experience (3 Units)**

(Prerequisite: ISED 797 and completion of 24 units of M.A. coursework)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 895</td>
<td>Field Study</td>
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</tr>
<tr>
<td>or ISED 898</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>
EDUCATION DOCTORAL PROGRAM

Graduate College of Education
Interim Dean: Nancy Robinson

Educational Leadership
BH 521
Phone: (415) 405–4103

Director: Barbara Henderson, Ph.D.
Associate Director: Jamal Cooks, Ph.D.

Doctor of Education (Ed.D.) in Educational Leadership

The Ed.D. in Educational Leadership is an intensive, multidisciplinary three-year program that culminates in a doctoral degree in Educational Leadership (Ed.D.) with a specialization in P–12 or community college leadership. The program focuses on transformative leadership, social justice, and equity. The program's purpose is to prepare outstanding educational leaders who will create transformative change in our educational institutions, which promote equity and scholastic achievement in the P–12 school districts and community colleges.

The curriculum addresses three major categories: (1) leadership and administration, (2) social justice and equity, and (3) inquiry. Other notable aspects of the program include:

- Face-to-face classes and a cohort model provide ongoing support and build professional networking opportunities among peers.
- Culminating research projects focus on addressing current and urgent issues of practice in diverse educational settings and take action to improve programs and systems for increased equity and to meet social justice goals.
- Course scheduling accommodates the needs of working professionals. Courses are offered on weekends during fall, spring, and summer semesters.
- Courses are taught by multidisciplinary faculty and educational practitioners to ensure students gain an understanding of the complexities of providing effective leadership for educational institutions, given current and historical social, political, and economic contexts.

 Admission Requirements

The program encourages individuals to apply who have a background, experience, and potential in P–12 or community college educational leadership, who are committed to social justice, and who seek to build their expertise and capacity as agents of change through a Doctorate of Education (Ed.D.)

The program requires the following for admission:

- A baccalaureate degree and master's degree from accredited institutions of higher education with a cumulative grade point average in graduate study of 3.0 or above.
- Demonstrated competence in writing as determined by the Ed.D. Program and Graduate Studies at SF State. Applicants must score a 4.0 or above on the analytical writing portion of the Graduate Record Exam (GRE); conditional admission may be offered to applicants with lower GRE writing scores.
- Demonstrated English language proficiency for non-native speakers of English by scoring 590 on the written test, 243 on the computer-based or internet-based test, 96 on the computer-based TOEFL, or 7.0 on the IELTS.
- Submission of Graduate Record Examination (GRE) scores on the three sections of the General Test. GRE scores from the previous five (5) years are valid for this purpose. In some circumstances, scores from other tests (e.g., GMAT) may be accepted in lieu of the GRE.
- Demonstrated educational leadership potential, including successful experience in school, postsecondary, community, and policy leadership.
- Demonstrated academic excellence, problem-solving ability, and interest in critically assessing and bringing about improvements in current educational policies and practices.
- Professional résumé or Curriculum Vitae.
- Three letters of recommendation attesting to the leadership and scholarship potential of the candidate.
- A written personal statement reflecting an understanding of the challenges facing the public schools or community colleges/ institutions of higher education in California and how the Ed.D. would support the applicant's goals.
- A statement of support for the candidate's doctoral studies from their employer or, in cases where this is not provided, an indication of the candidate's plan for meeting the demands of the program and their professional responsibilities.
- A personal interview with the admissions committee.

Meeting the minimum requirements qualifies an individual for consideration, but does not guarantee admission to the program. Admission will be granted on a competitive basis. The Ed.D. in Educational Leadership does not include a second-language requirement.

Program Requirements

Criteria for Continuing in the Program

- Students are expected to maintain satisfactory progress toward approved academic objectives.
- Students must advance to candidacy and complete all courses and milestones satisfactorily.
- Students are expected to make progress in accordance with the Ed.D. cohort structure and program of study.
- Students must maintain at least a 3.0 cumulative grade point average.
- Students may not have a grade point average below 3.0 in two successive semesters.
- Students must pass all program milestones within two attempts.

Unit Requirements

The program expects the following of students in completing unit requirements:

- The program of study is composed of at least 60 semester units earned in graduate status at the doctoral level.
- At least 48 semester units must be completed in residence at SF State. The program leadership may authorize the substitution of credit earned by alternate means for no more than 12 units of these 60 required units.
- A grade point average of 3.0 (grade of B) or better must be maintained in all courses taken to satisfy the requirements for the
degree, and courses in which no letter grade is assigned will not be used in computing the grade point average.

- No more than 12 semester units will be allowed for the culminating experience or dissertation.

Program Milestones

Although students continuously self-reflect and receive feedback from faculty on their learning, there are three milestones that provide formal assessment during the program:

- The initial milestone occurs after the first year of coursework when the student must pass the qualifying examination to advance to the second year. The qualifying examination consists of a 15 page paper that is read and scored by a faculty panel.
- The second milestone is the dissertation proposal defense, which should be completed during the second year of coursework. It requires an oral defense of the student’s research proposal to their dissertation committee. The culminating study should be related to a significant problem or issue affecting P–12 or community college/postsecondary education.
- The third and final milestone is the presentation of the student’s culminating research project, in which the student presents an oral defense of their work to the dissertation committee, and then completes all required revisions, as stipulated by their committee.

The culminating research project must focus on a significant problem or issue and have the potential to contribute to the improvement of public P–12 or community college/postsecondary education. Work in support of this final research project is embedded throughout the curriculum. All research undertaken for the culminating research project must meet the requirements and gain the approval of the University Institutional Review Board and the Office for the Protection of Human and Animal Subjects. The culminating research project may take a variety of forms and must demonstrate a strong scholarly and professional foundation of knowledge on the part of the student, as well as the ability to apply this knowledge to the rigorous study of P–12 or community college/postsecondary education.

Contact Information

For application details, please visit the Ed.D. in Educational Leadership web site: edd.sfsu.edu (http://edd.sfsu.edu).

Dr. Barbara Henderson, Director; Dr. Jamal Cooks, Associate Director
Ed.D. in Educational Leadership
San Francisco State University
1600 Holloway Avenue, BH 521
San Francisco, CA 94132
Phone: (415) 405-4103
Email: edd@sfsu.edu

Educational Leadership Discipline Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDDL 910</td>
<td>Transformational Leadership and Coalition Building</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 911</td>
<td>Organizational Behavior, Change, and Systemic Reform</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 912</td>
<td>Advanced Educational Leadership Seminar</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 920</td>
<td>Literacy and English Language Learners</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 921</td>
<td>Theories of Learning and Student Development in Math and Science</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 930</td>
<td>Qualitative Analysis of Race, Class, and Gender in Society and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 931</td>
<td>Quantitative Analysis of Structural Inequality in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 932</td>
<td>Transformational Strategies to Address Inequality in Education and Society</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 940</td>
<td>Policy, Law and the Political Economy of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 941</td>
<td>Accountability and Performance of Educational Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 942</td>
<td>Integrated Planning and Budget</td>
<td>3</td>
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<tr>
<td>EDDL 944</td>
<td>Human Resource Management in Education</td>
<td>3</td>
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<tr>
<td>EDDL 945</td>
<td>Communication Techniques &amp; Strategies in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 952</td>
<td>Field-Based Residency in Educational Leadership</td>
<td>3</td>
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<tr>
<td>EDDL 961</td>
<td>American Education Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 962</td>
<td>Analyzing Critical Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 963</td>
<td>Seminar: Linking Theory with Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 964</td>
<td>Research Seminar: Analyzing Critical Issues in Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 965</td>
<td>Dissertation Research Design</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 966</td>
<td>Dissertation Data Collection</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 998</td>
<td>Dissertation</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 999</td>
<td>Independent Study</td>
<td>3</td>
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</tbody>
</table>

Educational Leadership (Ed.D.) — Minimum 60 units

To be eligible for the Ed.D. degree, the students must progress through and complete a specified pattern of study that includes 60 units of doctoral level coursework (outlined below).

In addition, students must pass the three program milestones:

1. Qualifying exam (written at the end of the second semester);
2. Defense of their dissertation or culminating research project proposal before the Dissertation Committee;
3. Defense of their dissertation or culminating research project before the Dissertation Committee.

Sixty units of doctoral level coursework are comprised of 20 courses offered through the Educational Leadership Doctoral Program under three main themes: Leadership, Equity, and Inquiry. The courses are listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDDL 910</td>
<td>Transformational Leadership and Coalition Building (Themes: Leadership and Equity)</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 911</td>
<td>Organizational Behavior, Change, and Systemic Reform (Themes: Leadership and Equity)</td>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>EDDL 930</td>
<td>Qualitative Analysis of Race, Class, and Gender in Society and Education (Theme: Inquiry)</td>
<td>3</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>EDDL 931</td>
<td>Quantitative Analysis of Structural Inequality in Education (Theme: Inquiry)</td>
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<tr>
<td>EDDL 932</td>
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<td>Dissertation Research Design (Theme: Inquiry)</td>
<td>3</td>
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<tr>
<td>EDDL 966</td>
<td>Dissertation Data Collection (Theme: Inquiry)</td>
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</tr>
<tr>
<td>EDDL 997</td>
<td>Dissertation Seminar: Early Stage Writing and Data Analysis (Theme: Inquiry) (repeatable for up to 9 credits)</td>
<td>3</td>
</tr>
<tr>
<td>EDDL 998</td>
<td>Dissertation (Theme: Inquiry)</td>
<td>3</td>
</tr>
</tbody>
</table>
**EDUCATION MINOR PROGRAM**

**Graduate College of Education**
Interim Dean: Nancy B. Robinson
Program Office: Burk Hall, Room 501
Phone: (415) 338-2687

**Minor in Education**
The Minor in Education prepares undergraduate students to explore and to prepare for careers as professional educators at the post-baccalaureate level. Courses are designed to include foundations of education roles in a variety of settings that include working with young children; students in elementary school and high school; and adults. Hands-on experience is a component of each course in the minor and enables students to complete some or all of fieldwork requirements to enter credential programs following completion of a Bachelor’s Degree. Students may satisfy both a minor and complementary students requirements through the 12-credit EDUC Minor. Mandatory advising is required each semester. Advising will provide students with an individualized Road Map to assure that each student meets all requirements for the minor. Further, assistance and advising to complete requirements for application and admission to credential programs is provided to all EDUC Minor students.

**Program Learning Objectives:**
1. Develop a social justice educational philosophy that articulates the role of educators as agents of change.
2. Develop advocacy skills to build inclusive and supportive classroom communities for all students.
3. Prepare future educators to apply culturally responsive pedagogy to classroom environments.
4. Develop content appropriate instructional strategies that maximize learning for all students.
5. Develop interpersonal skills to interact professionally in educational environments.
6. Develop and participate in scholarly research in teaching and learning.
7. Explore and apply the arts as integral to a comprehensive educational experience.
8. Integrate multiple literacies into learning environments.

**Minor in Education – 12 Units**

**Education in American Society (3 Units)**
Select one of the following:
- S ED/EDUC 200 Introduction to Teaching and Education
- S ED/EDUC 300 Education and Society

**Equity and Social Justice in Education (3 Units)**
Select one of the following:
- EDUC 514 Teaching Diversity in the Classroom
- ISED 585 Cross-cultural Education

**Teaching in Action (3 Units)**
Select one course from the following:
- EDUC/E ED 250 Teaching and Learning Beyond the Classroom
- EDUC/E ED 333 Dynamic Educators for the 21st Century

Or select an alternative course from the following or another course upon advisement:
- E ED 645 Directed Experiences with Children
- KIN 340 Orientation to Teaching Physical Education
- LTNS 690 Community Fieldwork in Latina/o Studies

**Professional Educators and Communities (3 Units)**
Select one course from the following:
- E ED 645 Directed Experiences with Children
- E ED 655 Hands on Undergraduate Science Education Experience
- EDUC/E ED 450 Art and Learning
- EDUC/E ED 639 Bilingual Education in the U.S.: A History of Struggle, Resistance, and Achievement
- EDUC/E ED 681 Teaching Language and Literature with Elementary and Middle School Students

SPED 330 Introduction to Disability

Or select an alternative course from the following or another course upon advisement.
- AA S 211 Contemporary Asian Americans
- AA S 320 Chinese in the United States
- AA S 512 Asian American Children's/Adolescent Literature
- AA S 595 Asian American Communities and Public Policy
- AIS 470 American Indian Ethnicity: Problems in Identity
- AFRS 260 Power, Racism and Africana Liberation
- AMST 300 Perspectives on American Culture
- AMST 410 California Culture
- ART 303 The Artist in the 20th-21st Centuries: Cultures in Collision–Cultures in Fusion
- GEOG 455 Geography of Ethnic Communities
- HIST 450 History of California
- HUM 225 Values in American Life
- HUM 450/AMST 410 California Culture
- LTNS 211 Latina/o Families Narrative
- LTNS 222 Latina/o Art History
- LTNS 280 Transculturization and Latina/o Communities
- SOC 461 Ethnic Relations: International Comparisons
- SOC 468 Social Aspects of Human Sexuality
- SOC 469 Gender and Society
- SXS 301 Perspectives in Gay, Lesbian, Bisexual, and Transgender Studies
- WGS/SXS 551 Queer Literatures and Media
- WGS 554 Gender and Global Migration
- WGS 561 Women, Ethnicity, and Social Movements
Alternative course from subject areas that include a focus on teaching methods approved upon advisement.
ELEME N TaY EDUCATION

Graduate College of Education
Interim Dean: Nancy Robinson

Department of Elementary Education
Burk Hall, Room 179
Phone: (415) 338-1562
Chair: Dr. Josephine Arce

Graduate Coordinators:
Elementary Education: Dr. Sisk-Hilton
Early Childhood Education: Dr. Henderson, Dr. Kim, Dr. Meier
Language and Literacy: Dr. Borjian and Dr. Conrad
Mathematics Education: Dr. Zavala

Program Scope
The programs are designed to deepen theoretical knowledge, to promote professional growth, and to enhance the competencies of elementary, middle and secondary school, and early childhood educators.

Program Aims
The Master of Arts in Education: Concentration in Early Childhood Education provides early childhood educators with advanced knowledge and training in research, theory, and practice for working with children and families in multicultural and multilingual early childhood settings. This degree provides infant, toddler, preschool, primary grade, community college educators, and early childhood administrators with the skills and knowledge for teaching and leadership positions in the field of early childhood education. Courses taken for the program can qualify for Teacher and Administrator levels of the California Child Development Matrix.

The Master of Arts in Education: Concentration in Elementary Education provides elementary school teachers with advanced knowledge of research, theory, and practice in the field of elementary education in general as well as in particular subject matter disciplines. This concentration is a continuation of the SF State Multiple Subjects Credential Program and is only open to students who have completed their credential within two years of applying to the M.A.

The Master of Arts in Education: Concentration in Language and Literacy is designed to extend candidates' academic and professional knowledge in the field of language and literacy when teaching linguistically and culturally diverse student populations. The program provides elementary, middle, and secondary school teachers with advanced knowledge of research, theory, and practices in reading and language arts with a particular emphasis on the needs of English and second language learners. There is a strong emphasis on teaching literacy to students who are in urban school settings.

The Master of Arts in Education: Concentration in Mathematics Education provides elementary, middle school, high school teachers with advanced knowledge of research, theory, and practice in the teaching and learning of school mathematics and expands their knowledge of mathematics content. This program is run jointly with the secondary education department. Those holding a single subject mathematics credential should apply through the secondary department. Teachers holding Multiple Subject credentials will be eligible to apply for a supplementary authorization in mathematics for middle school teaching.

This degree also prepares teachers to assume leadership roles in their schools and districts.

General Requirements for Admissions

Written English Proficiency Requirement

Level One
Applicants to all concentration in elementary education will have their statement of purpose essays (submitted during the admission process) evaluated for writing proficiency. Details about this evaluation appear in each concentration description below.

Level Two
Level Two is satisfied by demonstration of English competency with satisfactory completion of E ED 895 or E ED 898.

Continuous Enrollment Requirement
Students who were admitted to a M.A. program before fall 2008 are required to be enrolled in the University during the semester of anticipated graduation. To meet this requirement, many students choose to enroll in enroll in a zero-unit designated College of Extended Learning course established for this purpose.

Students admitted fall 2008 and beyond have the semester they enroll in the culminating experience and the following semester to complete their degree requirements. Those who need additional time must enroll in a zero-unit designated CEL course every subsequent semester until the culminating experience is completed.

For more information, please contact your department or the Graduate College of Education Graduate Office (Burk Hall 244).

Professors
Arce, Borjian, Henderson, Meier, Quita

Associate Professors
Kim, Lao, Sisk-Hilton

Assistant Professors
Conrad,Fogo, Zavala

Masters
- Master of Arts in Education: Concentration in Early Childhood Education (p. 311)
- Master of Arts in Education: Concentration in Elementary Education (p. 313)
- Master of Arts in Education: Concentration in Language and Literacy Education (p. 313)
- Master of Arts in Education: Concentration in Mathematics Education (p. 314)

Master of Arts in Education: Concentration in Early Childhood Education

This 30-unit program consists of a core of required courses and electives. The required courses provide students with advanced preparation in child growth and development, cultural and linguistic diversity, early childhood curricula, and research methodologies. The program places a special
emphasis on teacher research as a primary methodology of inquiry for all early childhood practitioners. Coursework also focuses on understanding child development within varied social and cultural contexts, culturally responsive teaching and curriculum development for diverse populations, and providing family and community support. The culminating experience requirement for the concentration in early childhood education is the completion of a thesis or field study.

Admission to Program
Application for admission to the program is a two-step process that should be completed simultaneously:

1. Apply to the university. Complete the on-line CSU Mentor application. Follow all other requirements for admission to the university by accessing http://grad.sfsu.edu/.
2. Apply to the department by completing a department application. Applicants must also meet the following requirements:
3. Possession of an elementary teaching credential or the completion of a minimum of 12 units in professional course work relevant to early childhood education, including courses in child development and early childhood curriculum.
4. A minimum of one full year successful experience working with young children.
5. Submission of a written statement of purpose (2-page minimum) to the program co-coordinators. The statement of purpose should describe the applicant's goals for seeking the MA, concentration early childhood education, and describe the applicant's level of academic and professional preparation for the degree. The content and writing skill demonstrated will be evaluated as part of the admissions decision and to determine if the candidate has met Level One Written Language Proficiency at admission (see below).
6. Two letters of recommendation: one letter from an instructor addressing the applicant's ability to pursue graduate level work, and one letter providing evidence of recent work experience with young children.

Written English Proficiency Requirement
Level One
Applicants are assessed on the application essay based upon the early childhood education program's criteria. The evaluation rubric considers:

1. mechanics and style,
2. coherence and argumentation,
3. and content, that is, the relevancy of applicants experience and goals to that of the program.

Depending on their essay scores, applicants are either admitted, admitted conditionally, or denied admission. Applicants admitted conditionally are required to earn a minimum grade of B in the program approved writing intensive courses, E ED 721 or E ED 707 with instructor approval.

Level Two
Students are assessed on the quality of their culminating experience, E ED 895 or E ED 898.

Master of Arts in Education: Concentration in Early Childhood Education – 30 units
Foundation - Required (9 units)

E ED 709 Early Childhood Education Curriculum in Pluralistic Society 3

Select two:
E ED 700 Social, Emotional, and Physical Development in Early Childhood Education Sociocultural Contexts 6
E ED 707 Cognitive Development in Early Childhood Education Sociocultural Contexts
E ED 708 First and Second Language Development in Early Childhood Education

Research Courses – Required (6 units)

E ED 717 Narrative Inquiry and Memoir in Early Childhood Education 3
E ED 801 Practitioner Inquiry for Administration of Early Childhood Curricula

Electives (12 units)

Select from the following:

E ED 704 Children's Play Development in School and Community 3
E ED 715 Families in Early Childhood Settings and Communities 3
E ED 721 International Education in Early Childhood and Elementary Education 3
E ED 806 Leadership, Adult Supervision, and Family Advocacy 3
E ED 820 Seminar in Infant-Toddler Group Care Education Programs 3
E ED 850 Seminar in Early Childhood Mathematics and Science Curriculum 3
E ED 878 Multicultural Educational Theory and Practice for the Young Child 3
E ED 899 Independent Study 1-3

Other GCOE and University courses under advisement (two course limit)

E ED 600-level courses (two course limit)
One course in a department outside the Graduate College of Education (3 units) with consent of advisor
Coursework from recent SF State Multiple Subject Credential (up to 12 units)

Culminating Experience – Required (3 units)

E ED 895 Field Study 3
or E ED 898 Master's Thesis

Note: 12 units from the SF State Multiple Subject Teaching Credential program may be counted toward elective units within this degree. Only certain courses from the credential may be applied; consult with your advisor for details.

Upon advisement, six units earned at another institution may be counted toward the degree. Courses can be counted from a Multiple Subject Teaching Credential, upper division undergraduate courses, or graduate
level coursework, only if these units were not used toward another degree. In keeping with University requirements, courses can count on the Advancement to Candidacy only within a seven-year window.

Master of Arts in Education: Concentration in Elementary Education

Admission to Program
The Concentration in Elementary Education is only open to graduates of the SFSU Multiple Subjects Credential Program. Applicants must possess an elementary teaching credential or the equivalent or be in the student teaching phase of the Multiple Subjects Credential Program. All requirements for the MA degree must be completed within 7 years of the START of credential coursework.

Application to the program is a two-part process that should be completed simultaneously:

1. Apply to the University (students currently enrolled in the Multiple Subjects Credential Program do not need to pay an application fee; please see Elementary Education office for the procedure): Complete the on-line CSU Mentor application. Follow all other requirements for admission by accessing http://grad.sfsu.edu/.

2. Apply to the department by completing a department application. Applicants must also meet the following requirements:
   a. Possession of a Multiple Subject or elementary teaching credential.
   b. Currently enrolled in the SF State Multiple Subjects Credential Program or completed the program within the previous 2 years.
   c. Submission of a written statement of purpose (two-page minimum) to the program coordinator. The statement of purpose should describe the applicant’s goals for seeking the degree and describe the applicant’s level of academic and professional preparation. Both content and writing skill will be evaluated as part of the admissions decision and will determine whether the candidate has met Level One Written Language Proficiency at admission (see below). Current MSC students may submit an academic writing sample from their credential coursework in lieu of a statement of purpose to demonstrate Level One Written Language Proficiency.
   d. Two letters of recommendation from the following:
      • A college/university instructor addressing the applicant’s ability to pursue graduate level work.
      • A supervisor at a school or district addressing the applicant’s successful experience in classroom teaching or related work.

Written English Proficiency Requirement

Level One
Applicants to the program are assessed on the application essay based upon the elementary education program’s criteria. The evaluation rubric considers:

1. mechanics and style,
2. coherence and argumentation, and
3. content, that is, the relevancy of applicants’ experience and goals for the program.

Depending on their essay scores, applicants are either not admitted, admitted, or admitted conditionally. Applicants admitted conditionally are required to earn a minimum grade of B in the program-approved writing intensive course: E ED 760.

Level Two
Students are assessed on the quality of their culminating experience E ED 895.

Education (M.A.): Concentration in Elementary Education — 30 units

Credential Courses to Be Counted Toward the MA Degree (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>E ED 701</td>
<td>Social, Cultural, and Historical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>E ED 777</td>
<td>Curriculum and Instruction in Science</td>
<td>3</td>
</tr>
<tr>
<td>E ED 782</td>
<td>Teaching Reading/Language Arts K-3</td>
<td>3</td>
</tr>
<tr>
<td>E ED 786</td>
<td>Seminar in Developmental Teaching and Learning</td>
<td>3</td>
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Additional Required Courses (9 units)

At least nine units must form an Area of Specialization:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 765</td>
<td>Elementary School Science</td>
<td>3</td>
</tr>
<tr>
<td>E ED 769</td>
<td>Practitioner Research in Elementary Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
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Elective Courses (6 units)

In consultation with their academic advisor, students should select 6 elective units in the Department of Elementary Education or other academic departments university-wide that are relevant to their academic and professional learning goals. All electives must be approved by the academic advisor. Options include but are not limited to:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>E ED 615</td>
<td>Environmental Education in ECE</td>
<td>3</td>
</tr>
<tr>
<td>E ED 726</td>
<td>Engaging Young Writers in Classroom Settings, TK-12</td>
<td>3</td>
</tr>
<tr>
<td>E ED 760</td>
<td>Seminar on Social Issues and Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>E ED 761</td>
<td>School Mathematics: Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>E ED 767</td>
<td>Elementary School Creative Arts</td>
<td>3</td>
</tr>
<tr>
<td>E ED 850</td>
<td>Seminar in Early Childhood Mathematics and Science Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

Relevant science content courses, with approval of advisor.

Culminating Experience (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 895</td>
<td>Field Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Master of Arts in Education: Concentration in Language and Literacy Education

Admission to Program
Application to the program is a two-part process that should be completed simultaneously:

1. ...
Reading and Literacy Specialist Credential or the Reading and Literacy Added Authorization (see Credentials (p. 28)).

**Education (M.A.): Concentration in Language and Literacy Education — 33 units**

### Background and Theory (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 725</td>
<td>Classroom Issues in Language, Literacy, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>E ED 770</td>
<td>Teaching Integrated Literacy and Assessment, TK-5</td>
<td>3</td>
</tr>
<tr>
<td>E ED 771</td>
<td>Literacy Clinic II: Multidisciplinary Assessment and Remediation of Language and Literacy Problems</td>
<td>3</td>
</tr>
<tr>
<td>E ED 785</td>
<td>Literacy Theories: Connections to Classroom Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

### Classroom Applications (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 705</td>
<td>Exploring Child and Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>E ED 720</td>
<td>Research and Practice in Language and Literacy Education</td>
<td>3</td>
</tr>
<tr>
<td>E ED 726</td>
<td>Engaging Young Writers in Classroom Settings, TK-12</td>
<td>3</td>
</tr>
<tr>
<td>E ED 869</td>
<td>Enhancing Access for Bi-Literate Learner, TK-12</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- E ED 703 Family Literacy Studies of the Elementary Age Child | 3 |
- E ED 763 Integrating Language, Literacy, and Technology in Elementary School Curriculum | 3 |

### Research and Culminating Experience (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>E ED/S ED/ISED 895</td>
<td>Field Study</td>
<td>3</td>
</tr>
<tr>
<td>or E ED/S ED/ISED 898</td>
<td>Master's Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**Master of Arts in Education: Concentration in Mathematics Education**

### Admission to Program

The application is a two-part process that should be completed simultaneously:

1. Apply to the University: Complete the on-line CSU Mentor application. Follow all other requirements for admission by visiting http://grad.sfsu.edu/.
2. Apply to the department by completing a department application. Applicants must also meet the following requirements:
   a. Possession of a Multiple Subject or elementary teaching credential.
   b. A minimum of two years of experience teaching mathematics at the elementary or middle school level.
   c. In the event the candidate has not met the requirements in (a) or (b) above, he/she may meet with a mathematics education advisor to discuss alternative options.

---

**Written English Proficiency Requirements**

**Level One**

Applicants to the program are assessed on the application essay based upon the language and literacy education program’s criteria. The evaluation rubric considers:

1. mechanics and style,
2. coherence and argumentation, and
3. content, that is, the relevancy of applicants’ experience and goals for the program.

Depending on their essay scores, applicants are either admitted, admitted conditionally, or not admitted. Applicants admitted conditionally are required to earn a minimum grade of B in one of the program approved writing intensive course: E ED 720, E ED 723 or E ED 869.

**Level Two**

Students are assessed on the quality of their culminating experience, E ED 895 or E ED 898.

The Master of Arts in Education: concentration in Language and Literacy Education provides elementary to high school teachers with in-depth knowledge of research, theory, and practice in teaching and observing the learning development of students who are native English speakers, bilingual speakers, and/or students who speak variations of English. This degree provides advanced preparation and professional development for teaching in schools as well as for assuming such leadership roles as mentor teachers, literacy curriculum leaders, and staff developers. In addition, graduate students may combine this Concentration with a
advisor to evaluate his or her academic and professional background.

d. Submission of a written statement of purpose (2-page minimum) to the program coordinator. The statement of purpose should describe the applicant’s goals for seeking the M.A. concentration elementary education, and describe the applicant’s level of academic and professional preparation for the degree. The content and writing skill demonstrated will be evaluated as part of the admissions decision and to determine if the candidate has met Level One Written Language Proficiency at admission (see below).

e. Two letters of recommendation that address
   i the applicant’s ability to pursue graduate level work and
   ii successful experience in classroom teaching of mathematics.

Written English Proficiency Requirement

Level One
Applicants are assessed on the application essay based upon the program’s criteria. The evaluation rubric considers:

1. mechanics and style,
2. coherence and argumentation, and
3. content, that is, the relevancy of applicants’ experience and goals for the mathematics education program.

Depending on their essay scores, applicants are either admitted, admitted conditionally, or not admitted. Applicants admitted conditionally must earn a grade of at least B on the literature review assignment, as well as an overall grade of at least B in E ED 760, and must clearly demonstrate graduate level writing appropriate to our discipline.

Level Two
Students are assessed on the quality of their culminating experience, E ED 895 or E ED 898.

Education (M.A.): Concentration in Mathematics

Mathematics Courses (9 units)
Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 575</td>
<td>Mathematics in the Middle School Classroom</td>
<td>3</td>
</tr>
<tr>
<td>MATH 576</td>
<td>Math in Middle Schools II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 577</td>
<td>Math in Middle School III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 578</td>
<td>Mathematics in the High School</td>
<td>3</td>
</tr>
</tbody>
</table>

Education Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 761</td>
<td>School Mathematics: Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>E ED 796</td>
<td>Analyzing Cases of Mathematical Teaching</td>
<td>3</td>
</tr>
<tr>
<td>E ED 807</td>
<td>Leadership Development in Mathematics Education</td>
<td>3</td>
</tr>
<tr>
<td>E ED 856</td>
<td>Assessing Mathematical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>E ED 895</td>
<td>Field Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate Level Elective (3 units)
To be determined in consultation with an advisor.
SECONDARY EDUCATION

Graduate College of Education
Interim Dean: Nancy Robinson

Department of Secondary Education
Burk Hall, Room 45
(415) 338-1201/1202
Chair: Maika Watanabe
Graduate Coordinator, Concentration in Secondary Education: Maika Watanabe
Graduate Coordinator, Concentration in Mathematics Education: Judith Kysh

Professors
Avani, Cooks, Kysh, Watanabe

Associate Professors
Fan, Horvath

Assistant Professors
Bloom, Fogo

Lecturers
Bender, Berkman, Gomez, Kell, Lee

Masters
- Master of Arts in Education: Concentration in Secondary Education (p. 317)
- Master of Arts in Education: Concentration in Mathematics Education (p. 316)

Master of Arts in Education: Concentration in Mathematics Education

Admission to Program
Admission to the Master of Arts in Education: Concentration in Mathematics Education is based upon:

1. GPA of 3.0 in the undergraduate degree or last 60 semester (90 quarter) units attempted to include credential courses.
2. Possession of a single subject teaching credential.
3. At least two years’ experience teaching mathematics in a secondary classroom.
4. Evidence of written English proficiency.
5. An interview with the graduate coordinator and/or other graduate advisors.

An applicant that has not met the requirements above may meet with a mathematics education advisor to evaluate the applicant’s academic and professional background.

Admission to the graduate program is a two-part process that should be completed simultaneously:

1. Apply to the University through CSU Mentor for Graduate Programs http://www.csumentor.edu/AdmissionApp/grad_apply.asp. Follow all other requirements for admission to the University by accessing http://www.sfsu.edu/~gradstdy/main-domestic.htm.
2. Apply to the Department by submitting two letters of recommendation that address your ability to pursue graduate-level work and your successful experience teaching adolescents, along with a written Statement of Purpose of about 750 words, which explains your goals for pursuing the degree, and readiness based on academic and professional preparation and disposition as a student.
3. Submit official transcripts to the Graduate Studies Division.
4. Send the materials in number (2) above and informal transcripts to the Department of Secondary Education.

Written English Proficiency Requirement

Level One
Written English Proficiency will be assessed based on the Personal Statement, submitted to the department as part of the application.

Applicants admitted conditionally or not meeting stated written English proficiency standards must meet Level One written English proficiency by completing the literature review assignment and S ED 761 with a grade of B or better by the end of the second semester of enrollment and prior to advancing to level two.

Level Two
Writing proficiency will be assessed based on the quality of the Field Study Report or Thesis submitted as the Culminating Experience, E ED 895/S ED 895 or E ED 898/S ED 898. All students in the program must complete an 895 or 898 project.

Education (M.A.): Concentration in Mathematics Education — Minimum 30 units

Mathematics Courses (9 units)
Units selected from upper division or graduate mathematics courses with advisor approval.

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 350</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 475</td>
<td>Capstone Course for Secondary Teachers of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 575</td>
<td>Mathematics in the Middle School Classroom</td>
<td>3</td>
</tr>
<tr>
<td>MATH 576</td>
<td>Math in Middle Schools II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 577</td>
<td>Math in Middle School III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 578</td>
<td>Mathematics in the High School</td>
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</table>

Education Courses (12 units)

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<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
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<td>S ED 761</td>
<td>School Mathematics: Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>S ED 796</td>
<td>Analyzing Cases of Mathematical Teaching</td>
<td>3</td>
</tr>
<tr>
<td>S ED 856</td>
<td>Assessing Mathematical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>S ED 807</td>
<td>Leadership Development in Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>
Master of Arts in Education: Concentration in Secondary Education

The purpose of the Master of Arts in Education: Concentration in Secondary Education, is to support beginning teachers in developing and reflecting on their practice in relation to recent and continuing research on teaching and learning in their subject areas.

Admission to Program

Applicants must hold a bachelor’s degree from an accredited university. Additional entrance requirements include:

- A 3.0 GPA in the undergraduate degree or last 60 semester (90 quarter) units attempted, including credential courses.
- A valid preliminary or clear single subject teaching credential.
- Evidence of employment as a full or part-time teacher or evidence of permission to work on a regular basis within a school setting through a volunteer program or other agreement.
- Evidence of written English proficiency.
- An interview with the graduate coordinator and/or other graduate advisors.

Admissions requirements for currently enrolled, SF State single-subject credential candidates or graduates of our single-subject credential program

Application for admission is a two-part process that should be completed simultaneously:

1. Apply to the University through CSU Mentor for Graduate Programs: http://www.csumentor.edu/AdmissionApp/grad_apply.asp. Follow all other requirements for admission to the University by accessing: http://www.sfsu.edu/~gradstdy/main-domestic.htm. Submit all transcripts to the Graduate Studies Division.
2. Apply to the Department of Secondary Education by submitting the following documents to Burk Hall 43: a) Unofficial transcript to verify 3.0 cumulative GPA from credential program; b) Two recommendation letters that speak to your readiness to begin a MA degree— one from your Curriculum and Instruction professor, and one from any Department of Secondary Education faculty member, who was not your Curriculum and Instruction professor; c) written statement of about 750 words describing your goals in pursuing the degree, your research interest, and readiness for the program based on your academic and professional experience as well as your disposition as a teacher.

Written English Proficiency Requirement

Level One

Written English proficiency will be assessed on the Personal Statement, submitted to the department as part of the application. Students admitted conditionally or not meeting the written English proficiency standards must demonstrate that they have met the Level One Written English proficiency requirement by completing the literature review assignment and S ED 850 with a grade of B or better prior to enrolling in S ED 895 or S ED 898.

Level Two

Writing proficiency will be assessed based on the Field Study Report or Thesis submitted as the culminating experience for S ED 895 or S ED 898. All students in the program must complete an 895 or 898 project.

Education (M.A.): Concentration in Secondary Education — Minimum 30 units

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>S ED 770</td>
<td>Current Issues in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>S ED 780</td>
<td>Advanced Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>S ED 850</td>
<td>Culminating Experience Project Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Course in related or distributed field selected in consultation with a graduate advisor.

Courses in Related or Distributed Field (3 – 12 units)

[12 units may be taken as part of the Single Subject Credential Program]

Selected with approval of graduate major advisor

Culminating Experience (3 units)

Early in the semester prior to enrollment in either S ED 895 or S ED 898, the student must submit the Advancement to Candidacy (ATC), the...
Proposal for Culminating Experience, and the Human Subjects Protocol forms. Enrollment in these courses is contingent upon approval.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S ED 895</td>
<td>Field Study</td>
<td>3</td>
</tr>
<tr>
<td>or S ED 898</td>
<td>Master's Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**Courses Taken in the Single Subject Credential Program**

Up to 12 units of course work in secondary education completed to satisfy the requirements of the Single Subject Credential program may be used to fulfill the requirements for the M.A., as long as they were taken within the seven-year time limit for the degree. Credential courses that may be counted as electives or as "related or distributed field" courses include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S ED 701</td>
<td>Teaching for Equity in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>S ED 720</td>
<td>Literacy Across Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>S ED 759</td>
<td>Curriculum and Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>S ED 769</td>
<td>Curriculum and Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>S ED 790</td>
<td>Second Language Development</td>
<td>3</td>
</tr>
<tr>
<td>S ED 800</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Student Teaching**

S ED 640, S ED 660 may not be counted

**Associated Seminars**

S ED 751, S ED 752 may not be counted

Curriculum and instruction courses taken in other departments may be counted.
SPECIAL EDUCATION

Graduate College of Education
Interim Dean: Nancy Robinson
Department of Special Education & Communicative Disorders
Burk Hall, Room 156
Phone: (415) 338–1161
Email: spedcd@sfsu.edu
Website: spedcd.sfsu.edu (http://spedcd.sfsu.edu)

Chair: Yvonne Bui
Advisors: Program faculty in Department of Special Education and Communicative Disorders

Program Scope and Career Outlook
The programs in the Department of Special Education & Communicative Disorders include professional preparation in special education and communicative disorders. The programs include preparation for specialists who may work in schools, clinical settings, or community agencies with individuals with disabilities. Resources of education, psychology, counseling, and other human service related fields are utilized.

Communicative Disorders
Bachelor of Science in Communicative Disorders
Program courses constitute the specific requirements for a science major in communicative disorders leading to the baccalaureate degree at this University. The undergraduate sequence or a program equivalence is a prerequisite to the Master of Science in Communicative Disorders. A master’s degree in the area of speech-language pathology (SLP) is required for the professional license to practice in the field. A doctoral degree in Audiology (AUD) is required for professional licensing in audiology. All undergraduates, regardless of their intention to become an audiologist or speech-language pathologist, take the same coursework. Thirteen core courses are required for the major. The B.S. degree is not a terminal degree. While the B.S. degree in CD does not qualify the student to practice speech-language pathology or audiology, there are related fields open to the B.S. graduate that include employment as teacher’s assistant, classroom aide, child development worker, and speech-language pathologist assistant with additional intern experience beyond the undergraduate degree. In addition, the B.S. degree in CD is strong preparation for a number of graduate programs in special education, education, rehabilitation counseling, and related fields.

Master of Science in Communicative Disorders
The speech-language pathology curriculum is designed to train competent, culturally sensitive speech-language pathologists who can appreciate and understand the importance of research in clinical practice. In order to accomplish this goal, a multitude of academic and clinical experiences are provided to the students, under the direction of skilled instructors, clinical researchers and supervisors both on and off campus. The development of clinical skills requires academic knowledge, the ability to understand and engage in research, and a sensitivity to clients’ needs, values and cultures.

The CD Program curriculum includes all academic and clinical experiences necessary for American Speech and Hearing Association (ASHA) certification in speech-language pathology, State of California Speech-Language Pathology Services Credential, and the State of California license to practice speech-language pathology. Students are required to complete all academic courses. The practice of speech-language pathology in the state of California requires a license issued by the Speech-Language Pathology and Audiology Examining Committee Medical Board of California. Exempted settings are public schools and federal facilities. The academic and clinical requirements for the state license are similar to those of ASHA requirements in speech-language pathology.

Special Education
Minor in Special Education
The Minor in Special Education provides undergraduate students with an overview of the field of special education. An interdisciplinary program of required and elective courses ensures that students are exposed to a variety of courses pertaining to disability in our society. Competencies attained by students completing this minor have both a theoretical and practical nature and stimulate student interest in careers serving individuals with disabilities.

Master of Arts in Special Education
The Master of Arts in Special Education is an individually designed program in an area of emphasis. This degree emphasizes research and leadership skills within a select program of study. The degree prepares individuals for employment in education in public and private agencies serving people with disabilities and in other related human service fields. Programs within the department provide students with an opportunity to learn from, and participate in, on-going research, demonstration, training, and clinical projects conducted by faculty. Areas of emphasis include autism, early childhood special education, mild/moderate disabilities, moderate/severe disabilities, orientation and mobility, and visual impairments.

Special Education Graduate Certificates
Certificate in the Autism Spectrum
This graduate level certificate is designed to prepare highly qualified professionals to meet the unique needs of learners on the autism spectrum in diverse settings. Through participation in coursework that includes embedded field experiences, candidates will acquire applied knowledge of current theory, research, and practice to guide them in working with individuals on the autism spectrum from early childhood to adulthood. Candidates may include educators, therapists, advocates, family members, adults who identify on the autism spectrum, and others from a variety of fields and backgrounds.

Certificate in Inclusive Early Childhood Practices
The Certificate in Inclusive Early Childhood Practices offers an opportunity for students enrolled in professional programs or practicing professionals in education to pursue additional training in working with young children with special needs (from birth to five years) and their families. Further, the trans-disciplinary approach to this training makes the program equally valuable for related professionals, such as physical and occupational therapists, speech therapists, nurses, psychologists, and social workers. Graduates of the program may hold jobs in a variety of public and private early childhood education settings that include schools, hospitals, and government agencies.

Certificate in Augmentative and Alternative Communication
This graduate level certificate is designed to prepare highly qualified professionals to provide Augmentative and Alternative Communication (AAC) services for children, youth and adults with Complex Communication Needs (CCN) in school and community settings.
within the context of an interdisciplinary team. Through participation in coursework that includes concurrent field experiences, candidates will acquire a working knowledge of best practice in assessment and intervention to support communication through the application of AAC systems for children, youth, and adults to access learning, socialization, and vocational opportunities in society. Graduate students who are enrolled in master’s degrees in Communicative Disorders, Special Education, and related fields, in addition to practicing professionals in health, human services, and educational fields at the post-baccalaureate level, may complete the certificate program.

**Doctor of Philosophy in Education: Concentration in Special Education**
Graduate study leading to the Doctor of Philosophy degree with a concentration in Special Education is offered jointly with the University of California, Berkeley (http://www.berkeley.edu).

The program provides preparation for people interested in a leadership role in research, policy, advocacy, curriculum development, administration and supervision, and teacher education. Check with the department for specific application procedures for each campus: email: specdd@sfedu website: specdd.sfsu.edu (http://specdd.sfsu.edu).

**Admission to Graduate Programs and Certificates**
The following two sections provide a general introduction to admission requirements and Written English Proficiency requirements for graduate programs in the Department of Special Education & Communicative Disorders. Details regarding the joint doctoral program appear in the section titled “Education Doctoral Studies.”

A minimum 3.0 GPA is required for admission to certificates and master’s degrees, including the fields of Special Education and Communicative Disorders. Applications are available from the Department of Special Education & Communicative Disorders, (415) 338–1161, specdd.sfsu.edu (http://specdd.sfsu.edu)

Certificate applicants must first be eligible in accordance with all university requirements as outlined in the Certificate Programs section of this Bulletin. This same section includes university program guidelines and procedures to be followed in filing for the award of the certificate when it is completed.

The following University requirements apply to graduates in the Master of Arts in Special Education and the Master of Science in Communicative Disorders.

**Written English Proficiency Requirement**
Each graduate student must demonstrate the ability to write English correctly and effectively at the graduate level. To assure that each graduate student has the required proficiency in written English, two distinct assessments are made by the major department: Level One and Level Two.

**Level One**
Applicants will be required to submit evidence of one of the following as part of their application for admission to the M.S. in Communicative Disorders or M.A. in Special Education:

- Score of at least 3.5/6.0 on the GRE Analytical Writing Test or GMAT Analytic Writing Assessment.
- Score of at least 4.5/6.0 on the essay test of the paper-based [PBT] TOEFL (a minimum score of 24/30 on the Writing section of the Internet-based test [IBT] TOEFL).

- Score of at least 6.5/9.0 on the IELTS writing test, or a concordant score on the Pearson Test of English.
- Passing status score of at least 220 on the CSET Writing Skills Test. (CBEST Writing does not fulfill this requirement.)

Applicants who do not meet this requirement may be denied admission. If all other areas of the application are strong, a faculty member may choose to file a petition with Graduate Admissions to request conditional admission. If conditional admission is granted, the student will need to pass one of the tests listed above in the first semester of admission.

**Level Two**
**Master of Science in Communicative Disorders**
Students will be required to complete one of the following plans of the approved culminating experience, following advancement to candidacy:

**Plan A**
- C D 884 Advanced Diagnosis in Communicative Disorders 3
- Master’s Comprehensive Written Examination

**Plan B**
- C D 898 Master’s Thesis in Communicative Disorders (with Oral Defense of Thesis) 3
- C D 884 Advanced Diagnosis in Communicative Disorders 3

**Plan C**
- SPED 895 Field Study: Special Education 3
- C D 884 Advanced Diagnosis in Communicative Disorders 3

**Master of Arts in Special Education**
Students will be required to complete one of the following options of the approved culminating experience, following advancement to candidacy:

**Option I**
- SPED 896EXM Culminating Experience Examination 6
- Two elective graduate seminars (6 units), which will reflect critical analysis of literature and application of research. 1

**Option II**
- SPED 894 Creative Work Project in Special Education 6
- An elective graduate seminar (3 units), which will reflect critical analysis of literature and application of research. 1

**Option III**
- SPED 891 Advanced Research Seminar in Special Education 6
- SPED 898 Master’s Thesis or SPED 895 Field Study: Special Education

1 One elective seminar must be outside of the student’s emphasis area; can include SPED 881 Advanced Research Seminar in Special Education

**Continuing Enrollment Requirement M.S. in Communication Disorders & M.A. in Special Education**
Students admitted to a master’s degree program during or after Fall 2008:
If a student enrolls in one of the Culminating Experience courses, such as SPED 898 or C D 898, SPED 895 or SPED 894 to complete their masters degree, and does not finish his or her study by the end of the semester, or by the following semester (grade semester), he or she will be required to enroll in at least one course during each successive semester until completion of the culminating experience and a grade is entered by the committee chair.
Following a grace semester, if there is a break in enrollment before the culminating experience is completed, the student upon return will be required to retroactively enroll for semesters in between and must continuously enroll every semester thereafter until completed.

If a student is completing the master’s comprehensive written examination during the semester of graduation and has completed all degree requirements, they also need to enroll in at least one course.

Students in one of the above situations can enroll in the following low cost course available to meet this Continuous Enrollment Requirement:

- EDUC 499 College of Extended Learning
- Registration is online by visiting webapps.sfsu.edu/public/classservices/classsearch (https://webapps.sfsu.edu/public/classservices/classsearch) and accessing the Extended Learning Class schedule, locate EDUC 499 and proceed with enrollment.
- Academic Senate Policy on the Continuous Enrollment (https://senate.sfsu.edu/content/culminating-experience-continuous-enrollment-policy)

Students admitted to a master’s program during or before spring 2008: If a student enrolls in one of the culminating experience courses, such as SPED 898, SPED 895 or SPED 894 to complete their master’s degree, and does not finish their study by the end of the semester, he or she will be required to enroll in at least one course during the semester in which he or she intends to graduate and a grade is entered by the committee chair.

If a student is completing the master’s comprehensive written examination during the semester of graduation and has completed all degree requirements, he or she also will be required to enroll in at least one course.

Students can meet this requirement by enrolling in EDUC 499 through the College of Extended Learning (https://cel.sfsu.edu/register/forms)

Certificates
- Certificate in Augmentative and Alternative Communication (p. 326)
- Certificate in Autism Spectrum (p. 327)
- Certificate in Inclusive Early Childhood Practices (p. 326)

Bachelor of Science in Communicative Disorders

Advisors: Epstein, Gray, Raggio, Solomon-Rice, Soto, Yu

Program courses constitute the specific requirements for a Bachelor of Science degree in Communicative Disorders (CD) leading to the baccalaureate degree at this University. The undergraduate sequence or a program equivalence is a prerequisite to the Master of Science in Communicative Disorders. A master’s degree in the area of Speech-Language Pathology (SLP) is required for a professional license to practice in the field. A doctoral degree in Audiology (AUD) is required for professional licensing in Audiology. All undergraduates, regardless of their intention to become an Audiologist or Speech-Language Pathologist, take the same coursework. Thirteen core courses are required for the major. The B.S. degree is not a terminal degree. While the B.S. degree in CD does not qualify the student to practice Speech-Language Pathology or Audiology, there are related fields open to the B.S. graduate that include employment as a teacher’s assistant, classroom aide, child development worker, and Speech-Language Pathology Assistant with additional intern experience beyond the undergraduate degree. In addition, the B.S. degree in CD is a strong preparation for a number of graduate programs in special education, education, rehabilitation counseling, and related fields.

The undergraduate degree requires 120 units minimum. Students entering the program must hold the status of junior, and declare Communicative Disorders as the major. Students are required to meet the following criteria prior to enrollment in the major coursework:

- Demonstrate a minimum GPA of 2.0
- Meet with an advisor to review requirements of the professions in Communicative Sciences and Disorders.
- All undergraduates, regardless of their intention to become an Audiologist (AuD) or Speech-Language Pathologist (SLP), take the same coursework.

Many of the courses listed in the major have prerequisites and must be taken in a particular sequence. (Consult the roadmap and online course descriptions for the course sequence.)

To advance in the undergraduate program, students must:

- Maintain an overall grade point average of C or better (2.0 GPA)
- Receive a grade of C— or better in all courses in each consecutive semester in the program.
- Successfully complete all courses in each semester sequence.

Students who do not meet these criteria cannot take any additional courses in the sequence. Courses with less than a C— grade must be retaken before enrollment in the complete sequence may continue.
Communicative Disorders (B.S.) — 40 units

**Major Prerequisites**

1. A course in human or animal biology, human anatomy, and physiology, neuroanatomy and neurophysiology, human genetics, or veterinary science.
2. A course in Area D1 Social Sciences in psychology, sociology, anthropology, or public health.
3. A course in Area B1 Physical Science. Physics or chemistry is recommended.
4. A course in statistics. MATH 124, ISED 160, or PSY 171 are recommended.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 300</td>
<td>Human Communicative Disorders</td>
<td>3</td>
</tr>
<tr>
<td>C D 651</td>
<td>Anatomy and Physiology of the Speech Mechanism</td>
<td>3</td>
</tr>
<tr>
<td>C D 652</td>
<td>Audiology</td>
<td>3</td>
</tr>
<tr>
<td>C D 654</td>
<td>Audiometry</td>
<td>3</td>
</tr>
<tr>
<td>C D 655</td>
<td>Dynamics of Communication Development</td>
<td>3</td>
</tr>
<tr>
<td>C D 656GW</td>
<td>Diagnosis of Communicative Disorders - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>C D 657</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>C D 658</td>
<td>Communication Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>C D 659</td>
<td>Articulatory and Phonological Disorders</td>
<td>3</td>
</tr>
<tr>
<td>C D 661</td>
<td>Neolinguistics</td>
<td>3</td>
</tr>
<tr>
<td>C D 663</td>
<td>Introduction to Augmentative/Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>C D 664</td>
<td>Clinical Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>C D 668</td>
<td>Typical and Atypical Social Communication Development</td>
<td>3</td>
</tr>
<tr>
<td>C D 680</td>
<td>Practicum in Communication Therapy</td>
<td>1</td>
</tr>
</tbody>
</table>

**Capstone**

A capstone ePortfolio assignment is required in the fall semester of the senior year, as a part of the course requirements for C D 656GW.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 324)

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State.

Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
# Bachelor of Science in Communicative Disorders Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 40

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select One:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 124</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ISED 160</td>
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<tr>
<td></td>
<td>PSY 171</td>
<td></td>
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<tr>
<td></td>
<td><strong>Elementary Statistics</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>Data Analysis in Education</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Reasoning in Psychology</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major Prerequisite: A Course in Human or Animal Biology, Human Anatomy and Physiology,</td>
<td>3</td>
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<tr>
<td></td>
<td>Neuroanatomy and Neurophysiology, Human Genetics, or Veterinary Science.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or SF State Studies or University Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
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<td></td>
<td>SF State Studies or University Elective</td>
<td>5</td>
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<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>14-15</strong></td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
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<tr>
<td></td>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<tr>
<td></td>
<td>GE Area C: Arts (C1)</td>
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<td></td>
<td>SF State Studies or University Elective – Take Three</td>
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<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15-16</strong></td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td></td>
<td>C D 300</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CD 651</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CD 652</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CD 655</td>
<td>3</td>
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<tr>
<td></td>
<td>GE Area UD~C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>CD 654</td>
<td>3</td>
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<tr>
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<td>CD 658</td>
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<td></td>
<td>CD 661</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CD 680</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>
### SF State Studies or University Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 656GW</td>
<td>Diagnosis of Communicative Disorders - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>C D 657</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>C D 664</td>
<td>Clinical Phonetics</td>
<td>3</td>
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### Seventh Semester

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
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### Eighth Semester

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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>C D 659</td>
<td>Articulatory and Phonological Disorders</td>
<td>3</td>
</tr>
<tr>
<td>C D 663</td>
<td>Introduction to Augmentative/Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>C D 668</td>
<td>Typical and Atypical Social Communication Development</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

| Total Units | 120-122 |

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP; ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Certificate in Augmentative and Alternative Communication

This graduate level certificate is designed to prepare highly qualified professionals to provide Augmentative and Alternative Communication (AAC) services for children, youth and adults with complex communication needs (CCN) in school and community settings within the context of an interdisciplinary team. Through participation in coursework that includes concurrent field experiences, candidates will acquire a working knowledge of best practice in assessment and intervention to support communication through the application of AAC systems for children, youth and adults to access learning, socialization and vocational opportunities in society. Graduate students who are enrolled in master’s degrees in Communicative Disorders, Special Education, and related fields, in addition to practicing professionals in health, human services, and educational fields at the post-baccalaureate level may complete the certificate program.

Admission to the Program

To be considered for admission to the Graduate Certificate in AAC, applicants must meet the following requirements:

• Bachelor’s Degree: must be posted by the time student enters program
• GPA: 3.0 overall in baccalaureate coursework
• Written English Proficiency Requirement (WEP)

The application process includes the following steps:

• Complete a University application (CSU Mentor)
• Submit original transcripts from all universities attended
• Complete a department application
• Select the Graduate Certificate in AAC

A student who is interested in pursuing a certificate program may apply to the University as a post-baccalaureate classified student. Applicants who wish to pursue degrees in the department are encouraged to apply for both the certificate and degree programs simultaneously, as coursework may be applied toward the degree when taken as a classified graduate student.

Students who enter the certificate program and later gain admission to the M.S. Degree program in Communicative Disorders or M.A. Degree program in Special Education will be able to count SPED 743 and SPED 746 (6 units) toward the master’s degree program if taken within the timelines specified by the university graduate studies policies.

Augmentative and Alternative Communication Certificate – 12 units

Coursework for Classified Communicative Disorders MS Candidates

<table>
<thead>
<tr>
<th>Semester One:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>C D 713       Seminar in Therapy for Organic Communicative Disorders</td>
<td>1</td>
</tr>
<tr>
<td>C D 880       Advanced Communication Therapy</td>
<td>2</td>
</tr>
<tr>
<td>SPED 743      Issues in Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Two:
C D 881 Internship in Communicative Disorders I 3
SPED 746 Teaching Individuals with Physical and Other Health Impairments 3

Coursework for All Other Candidates

<table>
<thead>
<tr>
<th>Semester One:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>SPED 601 Observation and Participation in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 743 Issues in Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester Two:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 881 Internship in Communicative Disorders I 3</td>
<td></td>
</tr>
<tr>
<td>SPED 746 Teaching Individuals with Physical and Other Health Impairments</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate in Inclusive Early Childhood Practices

The Graduate Certificate in Inclusive Early Childhood Practices is intended for individuals seeking expertise in supporting the learning and development of all young children, including those at-risk or identified with disabilities. Required coursework is focused on culturally responsive practices and interventions that promote access, learning, and participation for all young children and their families. The program is intended for individuals in education or human service fields, such as general early childhood education, nursing, psychology, physical and occupational therapy, social work, speech and language therapy, who do not possess a California Education Specialist Credential.

Admission to the Program

To be admitted, students must meet the same standards as candidates for a master's degree program in Special Education. To apply students must hold a 3.0 minimum grade point average, submit two letters of recommendation, transcripts of all college or university level training, résumé, and a position statement documenting interest in this certificate.

Completion of the Program

• The student must maintain a minimum of 3.0 GPA in order to continue in and complete the program.

Written English Proficiency Requirement

Students must meet the Written English proficiency requirement by demonstrating competency on a written paper or examination.

Inclusive Early Childhood Practices Certificate – 12 units

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>E ED 708 First and Second Language Development in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>or E ED 709 Early Childhood Education Curriculum in Pluralistic Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>E ED 721 International Education in Early Childhood and Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>or E ED 850 Seminar in Early Childhood Mathematics and Science Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>
Certificate in the Autism Spectrum

This graduate level certificate is designed to prepare highly qualified professionals to meet the unique needs of learners on the autism spectrum disorders in diverse settings. Through participation in coursework that includes embedded field experiences, candidates will acquire applied knowledge of current theory, research, and practice to guide them in working with individuals on the autism spectrum from early childhood to adulthood. Candidates may include educators, therapists, advocates, family members, adults who identify on the autism spectrum, and others from a variety of fields and backgrounds. Graduate students enrolled in the Master of Arts and/or Education Specialist Credential in Special Education may have the option of pursuing the degree, credential, and certificate concurrently without adding additional requirements. Students possessing a master’s degree in special education or a related field may complete the certificate program, including prerequisites, as a post-master’s degree program.

Admission to the Program

The specific requirements and procedures for acceptance to the autism spectrum graduate certificate program are as follows:

- Students must meet the standards required for candidates for a master’s degree program in special education or provide evidence of advanced graduate training (master’s degree) in special education or a related field.
- Students who wish to concurrently pursue the certificate, the Master of Arts in special education and the Education Specialist credential must complete at least one semester of preliminary credential coursework.
- Complete a Department of Special Education & Communicative Disorders application, for the program in Special Education, including a statement of purpose, two letters of reference, official transcripts, and a résumé.
- Interview with program faculty

Completion of the Program

The student must maintain a minimum of 3.0 GPA in order to continue in and complete the program.

Written English Proficiency Requirement

Students must meet the Written English proficiency requirement by demonstrating competence through a written examination during the first semester of enrollment and the completion of a written paper.

Autism Spectrum Certificate – 12 units

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 791 Nature of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPED 825 Behavior and Instructional Supports: Autism</td>
<td>3</td>
</tr>
<tr>
<td>SPED 794 Communication, Socialization and Imagination: Autism</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Doctor of Philosophy in Education: Concentration in Special Education

The Ph.D. in Special Education is a joint doctoral program within the Graduate College of Education, SF State and the Graduate School of Education, University of California, Berkeley. The doctoral committee is co-directed by a faculty member from each campus who functions in consultation with the Executive Committee composed of faculty members from both campuses. Student performance and competencies are required to meet the scholarly requirements of the Graduate Studies Divisions of both institutions.

Members of the SF State faculty are from the Department of Special Education, which represents multiple areas of study relating to people with disabilities. Faculty from departments such as communicative disorders, psychology, sociology, social work, ethnic studies, and English are also available to work with doctoral students. The majority of the University of California, Berkeley faculty come from the Graduate School of Education and includes faculty from each of the major divisions: education, language, literacy, and culture; cognition and development; policy, organization, measurement, and evaluation; and social and cultural studies. In addition, faculty from several associated fields such as psychology, linguistics, public health, optometry, anthropology, public policy, social welfare, and social and behavioral sciences also participate in the program. Students are assigned a primary advisor from each campus.

Admission Requirements

The program encourages individuals to apply who have a background and experience in special education, as well as those from related disciplines in the social, behavioral, and health sciences who seek leadership and research training. In addition to the academic criteria for admission, consideration is given to successful experience working with individuals with disabilities or in programs serving this population. Students without sufficient preparation and experience in special education will be considered for admission and required to enroll in prerequisite foundation course work.

Selection Criteria

The major factors used in the selection of candidates are:

1. undergraduate grade point average;
2. graduate grade point average;
3. verbal and quantitative scores on the Graduate Record Examination, taken within the last five years (the GRE must be taken no later than the October test date preceding the admission deadline for fellowship applicants and no later than the December test date for applicants not applying for fellowships);
4. letters of recommendation;
5. statement of purpose which describes interests and research questions motivating the candidate to apply to the program;
6. writing sample (e.g., research paper, publication, etc.);
7. academic training and related professional experience in special education; and
8. personal interview.

**Application Procedures**

Applications must be submitted to the University of California, Berkeley (UCB). For SF State, applicants must submit a single page application to the Department of Special Education: spedcd.sfsu.edu. Faculty members from both campuses will review online applications submitted to UCB. Applicants do not apply to SF State Graduate Admissions until admission decisions are completed at the department level. For UCB, follow instructions outlined in the Graduate School of Education application and the Graduate Application for Admission and Fellowships. Contact SF State campus for the annual December application deadline and application: http://spedcd.sfsu.edu/content/joint-phd, (415) 338–1161; https://gse.berkeley.edu/cognition-development/joint-special-education

**Applications and contact information for each campus:**

Department of Special Education  
Joint Doctoral Program  
San Francisco State University  
1600 Holloway Avenue  
San Francisco, CA 94132  
Phone: (415) 338–1161  
email: spedcd@sfsu.edu  
http://spedcd.sfsu.edu/content/joint-phd  

Graduate School of Education  
Student Academic Services Office  
4307 Tolman Hall, #1670  
University of California  
Berkeley, CA 94720-1670  
Phone: (510) 643–6871  
Website: gse.berkeley.edu (http://gse.berkeley.edu)

UCB applications are available after August 1.

**Areas of Specialization**

In conjunction with the primary advisors, students will select a course of study which is congruent with their professional development goals and previous course work and experience. Students select three areas of specialization in consultation with the primary advisors. These three areas are to represent distinct areas of study and represent substantial and different bodies of relevant literature. A minimum of three courses or nine units is required in each area of specialization, not including directed or independent study.

Students select an area of academic specialization in both special and general education. Faculty and program resources on the two campuses are used to develop advanced knowledge of theory and research in an area of exceptionality. Specializations include: human development; language and literacy; bilingualism; technology; educational policy and administration; early childhood special education; mild to moderate disabilities; moderate to severe disabilities; autism; visual impairments; and other areas selected by students in consultation with faculty advisors. Students develop three areas of emphasis or specialization within their program.

Students who are accepted into the program and who have minimal or no academic course work in special education will be required to enroll in prerequisite foundation courses. These courses are taken primarily at the SF State campus.

**Normative Time for Program**

The normative time for completion of the doctoral degree is five years. Two years of full-time residence is required.

**Enrollment**

Enrollment is required on a year-to-year basis on both campuses and fees are paid to one campus during alternate years. Payment of fees on one campus permits the student to take coursework and utilize the facilities of the other campus at no additional charge. Students may elect courses from any department or college on either campus each semester. Core courses are completed within the first two years in the program.

**Pre-qualifying Review**

The prequalifying review for the doctoral degree consists of the approval of three position papers, one of which is an empirical paper, and a dissertation prospectus. The position papers cover the three areas of specialization and need to demonstrate theoretical competence in the field of academic preparation as applied to problems of educational significance and competence in research methods. Students are encouraged to pursue a one-time university-level teaching experience for course credit with a faculty mentor.

**Qualifying Examination**

The qualifying examination is an oral examination of three hours duration. The examination committee is comprised of at least four members representing each campus. From UC Berkeley, one member is from the Graduate School of Education and one member from outside the school. From SF State, at least one member is from the Department of Special Education. The student, in consultation with the primary advisor, selects members of the oral examination committee. The chairperson of the committee may be a member from either campus. The passing of the oral examination is a prerequisite to advancement to candidacy.

**Advancement to Candidacy**

Following successful completion of the qualifying examination, the student advances to candidacy and submits a dissertation proposal. Advancement to candidacy occurs by the end of the semester following the completion of the qualifying examination. A dissertation committee, comprised of faculty members representing both campuses, is formed. One member must be outside the UCB School of Graduate Education. The student selects the committee and requests a faculty member from each campus to serve as co-chair. The approved dissertation prospectus form allows enrollment in dissertation coursework in the subsequent semester. Completion of the dissertation results in the award of a doctoral degree.

**Education (Ph.D.) Concentration in Special Education — 45–53 Units**

**SF State Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 902</td>
<td>Public Policy in Special Education</td>
<td>1</td>
</tr>
<tr>
<td>SPED 903</td>
<td>Research Seminar in Special Education: Program Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SPED 907</td>
<td>Learning and Development: The Influence of Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 909</td>
<td>Current Issues Special Education Policy and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
UCB Core Courses
Select one:
- EDUC 200A Cognitive Development
- EDUC 205 Instruction and Development
- EDUC 291C Cognition, Learning, and Instruction: Childhood and Adolescence

Or approved alternative

Must take the following courses:
- EDUC 293A Data Analysis in Educational Research
- EDUC 293L Educational Data Analysis Laboratory

Additional Course Work at SF State (Minimum 3 Units Each Semester)
During participation in the doctoral program, students need to enroll in a minimum of 3 units at SF State and 12 units at UCB each semester. Additional course work at SF State includes the following doctoral level courses, as well as additional graduate level courses in special education under advisement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 905</td>
<td>University-level Teaching Internship</td>
<td>3</td>
</tr>
<tr>
<td>SPED 908</td>
<td>Directed Studies: Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>SPED 998</td>
<td>Doctoral Dissertation in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: At San Francisco State University, doctoral candidates repeat enrollment in SPED 908 each semester with their primary advisor for up to, but not exceeding, eight semesters. Following advancement to candidacy, the doctoral candidate enrolls in SPED 998 each semester with the chair, or co-chair, of their dissertation committee, for up to, and not exceeding three semesters.

Master of Arts in Special Education
Graduate Advisors: All tenured/tenure-track faculty serve as graduate advisors. See Department website for program emphasis and associated faculty. spedcd.sfsu.edu (http://spedcd.sfsu.edu)

General Information
Candidates may specialize in an area of emphasis that includes one of the following:

Early Childhood Special Education
This program emphasis is designed to provide special education personnel with the skills to successfully facilitate the development of young children with disabilities (birth to 5 years). Emphasis is placed on providing culturally competent family-centered services through an interdisciplinary approach.

Mild/Moderate Disabilities
This program emphasis includes preparation in educating diverse learners identified with learning disabilities, emotional/behavioral disorders, mild intellectual disabilities, speech and language delays, and neurodevelopmental differences, including autism. Through participation in courses and field experiences, candidates gain knowledge of current theory, research and practices focused on legal issues, psychoeducational evaluation, data-based assessment, curriculum design and instruction, positive behavior supports, social inclusion, and transition to college and vocations. The program emphasis also focuses on interdisciplinary collaboration and co-teaching among general and special educators while building relationships with students and their families in a variety of educational settings.

Moderate/Severe Disabilities
Candidates in this program emphasis must demonstrate their competence in providing quality educational services to students with moderate/severe disabilities including access to standards-based academic curricula and the use of systematic, data-based approaches to instruction and models of curricular adaptation and social belonging. Competencies in supporting students in inclusive settings, interacting effectively with families and in developing educational goals using a transdisciplinary team approach are also essential components of the program emphasis. In addition, a two-semester sequence of supervised practica ensures that candidates are able to apply the knowledge and skills acquired through course content and assignments to the instruction of students with moderate/severe disabilities in urban school settings.

Orientation and Mobility
Courses and field experiences in this program emphasis prepare professionals to teach skills of independent travel to people of all ages (birth through the senior years) who have visual impairments, including those who have multiple disabilities. Curriculum includes independent travel in indoor and outdoor environments; orientation skills; sensory and motor development; concept development; daily living skills; use of specialized technology in travel; and neurovision rehabilitation in the context of orientation and mobility.

Visual Impairments
The program emphasis is on the inclusion and differentiation of instruction for learners who are blind or visually impaired. Strategies include collaboration with school teams and families, information accessibility, and empowerment of individuals with visual impairments. Curriculum covers assessment, braille, technology, and areas related to the expanded core curriculum.

Admission to Program
Admission to the graduate program in special education is a two-step process with the same application deadline and needs to be completed simultaneously:

1. Apply to San Francisco State University: Complete the online CSU Mentor application. Follow all other requirements for admission to the University by accessing grad.sfsu.edu (http://grad.sfsu.edu). (http://grad.sfsu.edu)
2. Apply to the Department of Special Education & Communicative Disorders, M.A. in Special Education.

The program application requires background information, transcripts, a statement of purpose, two letters of reference, evidence of successful completion of the Level I Writing English Proficiency requirement, and a résumé. A minimum 3.0 GPA is required for admission to the M.A. in Special Education program. The program application and application deadlines are posted at spedcd.sfsu.edu (http://spedcd.sfsu.edu) or call (415) 338–1161 or email spedcd@sfsu.edu

Upon acceptance into the program, students are assigned a faculty advisor within their selected emphasis area. All students need to consult with their advisors before registration.
Special Education (M.A.) – Minimum 33 units

Core Program (9 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 788</td>
<td>Law, Ethics, and Instructional Planning</td>
<td>3</td>
</tr>
<tr>
<td>SPED 801</td>
<td>Development, Diversity, and English Language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Learners: Special Education</td>
<td></td>
</tr>
<tr>
<td>or SPED 779</td>
<td>Family Systems and Services for Young Children</td>
<td></td>
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<tr>
<td></td>
<td>with Disabilities</td>
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</tbody>
</table>

Note: SPED 779 is for students in the Early Childhood Special Education emphasis only.

Upper Division/Graduate Courses (12 units)

Courses in Special Education, as required by each program emphasis.

Related Studies (6 units)

Selected upon approval of major faculty advisor in program emphasis.

Culminating Experience (6 units)

Students will be required to complete one of the following options for the approved culminating experience, following advancement to candidacy:

**Option 1**

Two elective graduate seminars that reflect critical analysis of 6

literature and application of research skills, by advisement and approval of graduate advisor. One elective seminar must be outside of the program emphasis (can include SPED 881: Advanced Research Seminar in Special Education).

SPED 896EXM Culminating Experience Examination

**Option 2**

In consultation with an advisor, select one graduate seminar outside 3

the emphasis area (can include SPED 881: Advanced Research Seminar in Special Education).

SPED 894 Creative Work Project in Special Education 3

**Option 3**

SPED 881 Advanced Research Seminar in Special Education 3

Select one of the following: 3

SPED 895 Field Study: Special Education

SPED 898 Master’s Thesis

Master of Science in Communicative Disorders

Advisors: Epstein, Gray, Raggio, Solomon-Rice, Soto, Yu

Applicants must have completed a bachelor’s degree or equivalent coursework in Communicative Disorders. In addition, coursework in biological/physical sciences, statistics, and social sciences is required prior to admission to the graduate program. These courses may have been completed for an undergraduate degree to fulfill general education requirements and would be acceptable, in addition to an undergraduate major in Communicative Disorders, or an equivalent at the post-baccalaureate level. See department and program websites for academic and faculty information at comdis.sfsu.edu (http://comdis.sfsu.edu)

Admission to Program

Admission to the graduate program in Communicative Disorders is a two-step process that should be completed simultaneously. Annual admissions are for fall semesters only.

1. Apply to San Francisco State University: Complete the on-line CSU Mentor application. Follow all other requirements for admission to the University by accessing grad.sfsu.edu.
2. Apply to the Department of Special Education & Communicative Disorders, application for Communicative Disorders. Application deadlines are posted at spedcd.sfsu.edu (http://spedcd.sfsu.edu)

Selection is based on the following:

- Completion of the SF State Level I Written English Proficiency (WEP) requirement must be met prior to admission.
- A completed program application form, official transcripts, and two letters of recommendation from former professors or individuals conversant with work with speech, language, and/or hearing impaired individuals must be submitted.
- Evidence of satisfactory completion of prerequisites, and an undergraduate degree in Communicative Disorders, or completion of equivalent courses, which are prerequisites to the graduate courses in the program. Applicants who do not have an undergraduate degree in Communicative Disorders will be required to complete equivalent coursework prior to admission as a graduate student.

When accepted into the program, attend the program orientation to receive advising.

Communicative Disorders (M.S.) – 59–77 units

Required Academic Courses (33 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 657</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>C D 701</td>
<td>Language Differences and Disorders in Children</td>
<td>3</td>
</tr>
<tr>
<td>C D 706</td>
<td>Counseling in Communicative Disorders</td>
<td>3</td>
</tr>
<tr>
<td>C D 707</td>
<td>Advanced Seminar in Language Disorders in Children</td>
<td>3</td>
</tr>
<tr>
<td>C D 708</td>
<td>Neurogenic Disorders of Language</td>
<td>3</td>
</tr>
<tr>
<td>C D 709</td>
<td>Seminar in Motor Speech Disorder</td>
<td>3</td>
</tr>
<tr>
<td>C D 710</td>
<td>Seminar in Dysphagia</td>
<td>3</td>
</tr>
<tr>
<td>C D 756</td>
<td>Right Hemisphere Syndrome, TBI, Dementia in Communicative Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>C D 768</td>
<td>Advanced Clinical Skills</td>
<td>3</td>
</tr>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 788</td>
<td>Law, Ethics, and Instructional Planning</td>
<td>3</td>
</tr>
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</table>

Clinical Practicum (9 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 711</td>
<td>Seminar in Therapy for Functional Communicative Disorders (repeated concurrently with C D 880)</td>
<td>2</td>
</tr>
<tr>
<td>C D 713</td>
<td>Seminar in Therapy for Organic Communicative Disorders (concurrent with C D 880, adult clinic)</td>
<td>1</td>
</tr>
<tr>
<td>C D 880</td>
<td>Advanced Communication Therapy (2 unit course to be taken three times)</td>
<td>6</td>
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</tbody>
</table>

Internships (14 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 712</td>
<td>Medical Internship Seminar: Communicative Disabilities (concurrent with C D 882)</td>
<td>1</td>
</tr>
<tr>
<td>C D 725</td>
<td>School Intern Seminar: Communication Disabilities</td>
<td>1</td>
</tr>
</tbody>
</table>
Optional Specializations, including AAC or Autism (15 units maximum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 743</td>
<td>Issues in Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPED 746</td>
<td>Teaching Individuals with Physical and Other Health Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 791</td>
<td>Nature of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPED 794</td>
<td>Communication, Socialization and Imagination: Autism</td>
<td>3</td>
</tr>
<tr>
<td>SPED 825</td>
<td>Behavior and Instructional Supports: Autism</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience (3–6 units)

One of the following plans:

**Plan A**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 884</td>
<td>Advanced Diagnosis in Communicative Disorders (and Master’s comprehensive written examination)</td>
<td>3</td>
</tr>
</tbody>
</table>

(see department for limitations on repeat of failed examination or portions thereof)

**Plan B**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 898</td>
<td>Master’s Thesis in Communicative Disorders (and Oral Defense of Thesis)</td>
<td>6</td>
</tr>
<tr>
<td>C D 884</td>
<td>Advanced Diagnosis in Communicative Disorders</td>
<td>6</td>
</tr>
</tbody>
</table>

**Plan C**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 895</td>
<td>Field Study: Special Education</td>
<td>6</td>
</tr>
<tr>
<td>C D 884</td>
<td>Advanced Diagnosis in Communicative Disorders</td>
<td>6</td>
</tr>
</tbody>
</table>

**Note:** Plans B & C are recommended to individuals planning to pursue predoctoral education. In addition, completion of Plan B, thesis and oral defense, or Plan C, field study, are accepted in lieu of the master’s written comprehensive examination.

Minor in Special Education

Special Education Minor — 15 units

**Required Courses (9 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 330</td>
<td>Introduction to Disability</td>
<td>3</td>
</tr>
<tr>
<td>SPED 630</td>
<td>Inclusive Education: Empowerment and Equity in Diverse Schools</td>
<td>3</td>
</tr>
<tr>
<td>SPED 675</td>
<td>Working with Families of Young Children with Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses (6 units)**

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 310</td>
<td>Exploring Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 370</td>
<td>Young Children Disabled or At Risk and Their Families</td>
<td>3</td>
</tr>
<tr>
<td>SPED 620</td>
<td>The Science of Early Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SPED 662</td>
<td>Education of Deaf/Hard of Hearing Children</td>
<td>3</td>
</tr>
<tr>
<td>SPED 655</td>
<td>Basic Orientation and Mobility for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 671</td>
<td>Positive Behavior Support for Young Children</td>
<td>3</td>
</tr>
</tbody>
</table>
TEACHING AND EDUCATIONAL SERVICES CREDENTIAL PROGRAMS

Teaching and Educational Services credentials are governed by the Commission on Teacher Credentialing (CTC) under authority granted to it by the California State Legislature. Institutions of higher education are granted the right to recommend candidates for licensing by the CTC after this agency has approved all programs related to teacher education and educational services credentials (Administrative Services, Clinical or Rehabilitative Services, Pupil Personnel Services, and Speech–Language Pathology Services). All programs at SF State that lead to public school teaching and school services credentials have received CTC approval.

The professional teacher preparation programs leading to a teaching credential or services credential, along with the formal authorization to recommend the awarding of credentials, are the responsibility of the Graduate College of Education. Some required course work for credentials is offered in various colleges and departments across the University. Academic departments offering majors in approved subject matter programs are responsible for certifying the subject matter competency of candidates. If a candidate has obtained a subject matter competency waiver from another institution of higher education, the student must provide verification in their admissions application.

Credential and Graduate Services Center
The Credential and Graduate Services Center (CGSC) in the Graduate College of Education provides a one-stop shop for all inquiries about credential program application requirements and procedures and information about applying for or renewing teaching and services credentials. The CGSC also assists candidates in the Graduate College of Education in submitting documents for the award of master’s degrees and applying for scholarships. The Credential and Graduate Services Center is located in Burk Hall 244.
Phone: (415) 405–3594
Email: credinfo@sfsu.edu
Website: http://gcsc.sfsu.edu.

The pathways one might pursue in order to become a public school teacher or university professor follow:

Pathways to a Career in Education
I want to work in:

- Preschool (p. 332)
- Elementary School (p. 332)
- High School or Middle School (p. 332)
- Special Education (p. 332) (preschool and K – 12; includes speech pathology)
- Educational Administration (p. 333) (elementary, middle or high school principal)
- Teacher Leadership, Professional Development, Program & Curriculum Development (p. 333)
- School District Leadership (p. 333)
- College Level TESOL (p. 333) (Teaching English to Speakers of Other Languages)
- Community College (p. 333)

<table>
<thead>
<tr>
<th>Preschool</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Preparation</td>
<td>Major in Child and Adolescent Development</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>None</td>
</tr>
<tr>
<td>Post-B.A. Preparation</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elementary School</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Preparation</td>
<td>Complete a bachelor’s degree in any subject, except professional education. The Liberal Studies major or Child and Adolescent Development major provides preparation for the Multiple Subjects CSET. These majors also provide 45 hours of early field experience in a public school and fulfill the second language requirement.</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>Basic Skills Exam (See MSC Admission Packet for various options), CSET: Multiple Subjects</td>
</tr>
<tr>
<td>Post-B.A. Preparation</td>
<td>Complete a Multiple Subject Credential Program. Pass the RICA exam. Fulfill the U.S. Constitution, Level I Technology, CPR, and edTPA requirements. Complete fingerprinting requirement.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High School or Middle School</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Preparation</td>
<td>Major in the subject area that you plan to teach OR pass the CSET in the subject matter, fulfill early field experience and second language requirements.</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>Basic Skills Exam, CSET or Subject Matter Program in Content Area</td>
</tr>
<tr>
<td>Post-B.A. Preparation</td>
<td>Complete a Single Subject Credential program. Fulfill the U.S. Constitution, Level I Technology, CPR, and edTPA requirements. Complete fingerprinting requirement.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Education</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Preparation</td>
<td>Complete undergraduate preparation for elementary or secondary education and fulfill early field experience requirement.</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>Basic Skills Exam, CSET (for Education Specialist Credentials only, except Early Childhood Special Education)</td>
</tr>
</tbody>
</table>
**Post-B.A. Preparation**

Complete an Education Specialist Credential; Clinical or Rehabilitative Services Credential; or Speech-Language Pathology Services Credential program. Pass the RICA Exam (for Education Specialist Credentials only, except Early Childhood Special Education). Fulfill the U.S. Constitution requirement (for Education Specialist Credential only). Complete fingerprinting requirement. Complete CPR requirement (for Education Specialist Credentials only). Complete a Master of Science Degree in Communicative Disorders (for Speech-Language Pathology Services Credential only).

**Educational Administration**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Preparation</td>
<td>Complete a teaching or services credential program.</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>Basic Skills Exam</td>
</tr>
<tr>
<td>Post-B.A. Preparation</td>
<td>Complete an Administrative Services Credential program.</td>
</tr>
</tbody>
</table>

**Teacher Leadership, Professional Development, Program & Curriculum Development**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Preparation</td>
<td>Complete undergraduate preparation in the content area in which you wish to work.</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>Consult individual department or program.</td>
</tr>
<tr>
<td>Post-B.A. Preparation</td>
<td>Complete an MA in Education in a variety of available concentrations.</td>
</tr>
</tbody>
</table>

**School District Leadership**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Preparation</td>
<td>Complete undergraduate preparation for elementary or secondary education and fulfill early field experience requirement. Complete three years of teaching, hold a teaching credential, and hold an administrative services credential.</td>
</tr>
<tr>
<td>Admissions Tests</td>
<td>Consult Educational Leadership Doctoral Program requirements.</td>
</tr>
<tr>
<td>Post-B.A. Preparation</td>
<td>Complete the SF State Doctorate in Educational Leadership.</td>
</tr>
</tbody>
</table>

**College-Level TESOL**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Satisfied by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Preparation</td>
<td>Complete an English major with a concentration in Language Studies OR prerequisite courses.</td>
</tr>
</tbody>
</table>

**Admissions Tests**

- Consult SF State English Department.
- Complete a Master of Arts in English with a Concentration in TESOL.
- Major in the subject you want to teach.
- Consult Department.
- Complete a Master’s degree.
- Complete a doctorate degree (Ph.D. or Ed.D.).

**Glossary of Important Terms**

**Administrative Services Credential**: The California basic credential that allows you to work as the principal of an elementary, middle, or high school.

**Basic Skills Exam**: A test of basic math, reading, and writing skills that all credential candidates must pass. Can be taken as soon as you have completed basic college requirements in English and math. The California Basic Educational Skills Test (CBEST) is one of several ways to meet the Basic Skills Requirement.

**Bilingual Authorization**: SF State offers a bilingual emphasis (Cantonese, Mandarin, and Spanish) that allows elementary school candidates to teach in bilingual programs. Course work and a language proficiency exam in the target language (Cantonese, Mandarin, or Spanish) are required. Candidates must declare their intention at the time of application.

**CTC**: Commission on Teacher Credentialing. A state agency that establishes, reviews, and maintains standards for California educators and awards credentials on the recommendation of a university.

**Clinical or Rehabilitative Services Credential**: The California basic credential that allows you to work in the area of orientation and mobility.

**CSET**: California Subject Examination for Teachers. A test of subject matter competency.

**Early Field Experience**: Required for admission to most teaching credential programs. Usually, consists of a minimum of 45 hours of volunteer or work experience in the type of classroom environment in which you plan to teach. Classrooms should be culturally and linguistically diverse.

**Education Specialist Credential**: The California basic credential that allows you to teach students with disabilities in specific areas of specialization (e.g., mild/moderate, moderate/severe, visual impairments).
Multiple Subject Credential: The California basic credential that allows you to teach in a self-contained classroom (usually grades K–5).

RICA: Reading Instruction Competence Assessment. A test taken after completion of courses in teaching reading.

School District Leadership: A doctoral–level program offered by SF State.

Single Subject Credential: The California basic teaching credential that allows you to teach a specific subject to different groups of students (usually grades 6–12).

Teaching and Services Credentials
Teaching credential programs offered at SF State comply with the Senate Bill 2042 standards. The following credential programs are available at SF State:

Multiple Subject Credential Programs (p. 334)
- Multiple Subject
- Multiple Subject with Bilingual Authorization in Cantonese, Mandarin or Spanish

Single Subject Credential Program (p. 333)
- Single Subject

Education Specialist Credential Programs (p. 337)
- Early Childhood Special Education
- Mild to Moderate Disabilities
- Moderate to Severe Disabilities
- Visual Impairments

Education Specialist Added Authorizations (p. 340)
- Autism Spectrum Disorders
- Early Childhood Special Education
- Orthopedically Impaired

Specialist Credential Programs (p. 340)
- Reading and Language Arts Specialist
- Reading Certificate

School Services Credential Programs (p. 342)
- Administrative Services Preliminary Credential
- Pupil Personnel Services: School Counseling, School Psychology, and School Social Work

Other Services Credential Programs (p. 343)
- Clinical or Rehabilitative Services: Orientation and Mobility
- Speech-Language Pathology Services: Language, Speech, and Hearing

Multiple Subject Credential Programs

Multiple Subject Credential (MSC)
Multiple Subject Credential Program prepares candidates to teach in elementary school from Transitional Kindergarten to 5th grade. Our credential program provides teacher candidates with the pedagogical skills and content knowledge to support the social and academic development of all children. The MSC is grounded in culturally responsive pedagogically aligned with a social justice perspective. Teacher candidates develop or advanced their dispositions that support educational equity for all children. We offer several program pathways to obtain the Multiple Subject Preliminary Credential.

Twelve units of the MSC can be applied to the following: Master of Arts: Concentration in Elementary Education or to the Master of Arts in Early Childhood Education. You must enroll in one of these two MAs immediately after completing the MSC or within two years.

Multiple Subject Credential (MSC), Bilingual Authorization
The MSC, Bilingual Authorization allows bilingual-biliterate candidates to obtain an additional authorization to teach in a bilingual classroom setting in Transitional Kindergarten to fifth grade. Candidates must demonstrate listening, speaking, reading, and writing proficiency in the focus language (Cantonese, Mandarin, or Spanish).

MSC Program Options
1. Three-semester program offers either a daytime or evening option. Candidates are placed in learning communities that allow a cohort to enroll in sequenced coursework. Candidates are placed for student teaching in socially, economically, culturally and linguistically diverse elementary classroom settings.

2. One-year-academic program is geared for full-time students who can immerse themselves in an intensive credential program. Grounded in strong research-based practices and learning theories where candidates have opportunities to apply theories and instructional approaches in their student teaching practicum within weeks in first the semester. A few courses are organized in a module format allowing candidates to complete the program within one academic year. You must pass CSET & CBEST before the first semester begins.

3. Interns: The California Commission on Teacher Credentialing provisional permit allows non-credential individuals to work as the teacher of record only if enrolled in a credential program and meets other criteria. There are critical steps to follow:
   a. A candidate must show evidence of passing CSET;
   b. A school district must offer the candidate a teaching position at an elementary school site;
   c. A candidate applies and is admitted to an accredited credential program;
   d. Once enrolled after the completion of 120 credit hours, generally, three courses in one semester, the candidate with approval from advisor applies for the Intern teaching permit.

   *Note: Interns work at a slower coursework pace while in the credential program.

4. Bilingual Educators for Social Transformation (BEST) Spanish/English (3 semesters)
BEST embraces concepts of social justice and equity with a focused philosophical stance representing critical pedagogy and rooted in bilingual education. BEST integrates culturally relevant pedagogy throughout coursework. The goals are to develop critical educators who are equipped with tools to analyze and develop agency about challenges Latinos have faced, while also recognizing and highlighting the successes of the Latino communities.
5. Chinese Bilingual Authorization (Three semesters)

This option provides bilingual-bicultural courses in Chinese literacy. Chinese heritage language and pedagogy and student teaching placement in Chinese bilingual classrooms.

*Note: International students must first apply to a Master of Arts Program in Education. Once admitted, candidates can enroll in credential courses after completing a minimum of two to three graduate courses with approval of the Chair, Department of Elementary Education.

6. Early Childhood Education Focus, Transitional Kindergarten to 3rd grade. (1 academic year) Fall admissions.

This option provides an ECE focus, TK-3rd grade, however, your MS Credential qualifies you to teach TK to 5th grade. It is grounded in culturally responsive pedagogy. You will enroll primarily in sequenced courses addressing children’s language, academic and social development in primary classroom settings. Several courses will have modules focusing on instructional approaches for grades 4–5.

EdTeaching Performance Assessment (edTPA)

All Multiple Subject candidates are required to pass the EdTeaching Performance Assessment during the final student teaching phase in order to earn the California Multiple Subject Credential. The edTPA provides teacher preparation programs with a systemic approach to evaluate candidate's competencies with the Teaching Performance Expectations. EED 758, final student teaching practice seminar prepares candidates for the edTPA.

GPA Requirement throughout the Multiple Subject Preliminary Credential Program.

A GPA of 3.0 or better with no grade lower than a C+ is required in all courses comprising the professional education sequence. A grade of CR is acceptable only if required by selected EED courses.

Requirements for admission to the Multiple Subjects Credential Program

- Baccalaurate degree, except in professional education, from an accredited college or university. (Required for admission)
- Satisfy the Basic Skills Requirement (Required for admission).
  Successful passage of one of the following:
  - California Basic Educational Skills Test (CBEST)
  - CSET Multiple Subset Tests I, II, and III; Subtest IV Writing Skills Test can be taken in lieu of CBEST.
  - A Commission-approved out-of-state basic skills exam
  - CSU Early Assessment Program (EAP) Placement Test
  - Entry Level Math & English Placement Test (ELM & EPT)
  - College Board SAT, ACT, and College Board Advanced Placement Examinations (AP)
- Subject Matter Competency. Candidates must demonstrate competency in multiple subject areas by passing the Commission-approved California Subject Matter Examination for Teachers—CSET Multiple Subjects. (Required for admission)
- Complete Certificate of Clearance (fingerprinting) process. (Required for admission)
- Demonstrate knowledge of the principles of the Constitution of the United States. Applicants may satisfy the U.S. Constitution requirement either by course work or examination. Applicants who have earned a baccalaureate degree from a CSU campus have met this requirement.
- Level I Educational Technology requirement. May be met by taking ITEC 601 or the CSET Exams in Preliminary Educational Technology.
- Pass the Reading Instruction Competence Assessment (RICA) examination. RICA should be taken after taking E ED 782 and E ED 737.
- Complete a comprehensive, hands-on CPR (cardiopulmonary resuscitation) training course for infants, children, and adults. CPR card must be valid at the time of application for the Preliminary credential. Online CPR courses are not acceptable.
- GPA for admissions 2.67 overall or 2.75 last 60 units or 90 quarter units.

Multiple Subject Credential — (Units vary based on program options)

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 701 Social, Cultural, and Historical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>E ED 713 Spanish Heritage Language for the Bilingual Teacher I (only for the Spanish Bilingual Program)</td>
<td>3</td>
</tr>
<tr>
<td>E ED 737 Teaching Social Studies, Social Justice, and Literacy Grades 3-6</td>
<td>3</td>
</tr>
<tr>
<td>E ED 746 Teaching Practicum Phase I</td>
<td>1.5</td>
</tr>
<tr>
<td>E ED 747 Teaching Practicum Phase II</td>
<td>1.5</td>
</tr>
<tr>
<td>E ED 748 Teaching Practicum Phase III</td>
<td>1.5</td>
</tr>
<tr>
<td>E ED 749 Second Language Acquisition in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>E ED 756 Teaching Practicum Seminar Phase I</td>
<td>1.5</td>
</tr>
<tr>
<td>E ED 757 Teaching Practicum Seminar Phase II</td>
<td>1.5</td>
</tr>
<tr>
<td>E ED 758 Teaching Practicum Seminar Phase III</td>
<td>1.5</td>
</tr>
<tr>
<td>E ED 777 Curriculum and Instruction in Science</td>
<td>3</td>
</tr>
<tr>
<td>E ED 782 Teaching Reading/Language Arts K-3</td>
<td>3-4</td>
</tr>
<tr>
<td>E ED 873 Developmental Teaching and Learning in Diverse School Settings, K-8</td>
<td>3</td>
</tr>
<tr>
<td>E ED 874 Curriculum and Instruction in Mathematics (CLAD Emphasis)</td>
<td>3</td>
</tr>
<tr>
<td>E ED 876 Seminar in Developmental Teaching and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Single Subject Credential Program

This credential authorizes the holder to teach specified subject matter courses in departmentalized classrooms, in preschool through grade twelve or in classes organized primarily for adults. Departmentalized classes exist most commonly in California middle and high schools.

Requirements for the Preliminary Credential

- Baccalaurate degree, except in professional education, from a regionally-accredited college/university. (Required for admission)
- Satisfy the Basic Skills Requirement (Required for admission).
  Successful passage of one of the following:
  - California Basic Educational Skills Test (CBEST)
  - A Commission-approved out-of-state basic skills exam
  - CSU Early Assessment Program (EAP) Placement Test
  - CSU Entry Level Math & English Placement Test (ELM & EPT)
Limited World Languages Openings in Single Subject Program

The Single Subject Program can only place a limited number of World Languages candidates in student teaching. The number varies depending on the language.

GPA Requirement for the Preliminary Credential

A GPA of 3.0 or better with no grade lower than a C is required in all courses comprising the professional education sequence. A grade of CR is acceptable only if mandated by the department.

Two Semester Program for Full-Time Students

First Semester: Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S ED 640</td>
<td>Supervised Observation/Participation in Public Schools</td>
<td>3</td>
</tr>
<tr>
<td>S ED 701</td>
<td>Teaching for Equity in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>S ED 720</td>
<td>Literacy Across Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>S ED 751</td>
<td>Classroom Environment and Management</td>
<td>3</td>
</tr>
<tr>
<td>S ED 800</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>Curriculum and Instruction I – discipline based; see course number below:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDUC 750</td>
<td>Curriculum and Instruction in Art (Art)</td>
<td></td>
</tr>
<tr>
<td>ENG 713</td>
<td>Seminar in Curriculum and Instruction in English I (English)</td>
<td></td>
</tr>
<tr>
<td>CFS 699</td>
<td>Independent Study (Home Economics)</td>
<td></td>
</tr>
<tr>
<td>S ED 759</td>
<td>Curriculum and Instruction I (Mathematics)</td>
<td></td>
</tr>
<tr>
<td>MUS 760</td>
<td>Curriculum and Instruction I: Music (Music)</td>
<td></td>
</tr>
<tr>
<td>KIN 750</td>
<td>Curriculum and Instruction I: Physical Education (Physical Education)</td>
<td></td>
</tr>
<tr>
<td>S ED 759</td>
<td>Curriculum and Instruction I (Science)</td>
<td></td>
</tr>
<tr>
<td>S ED 759</td>
<td>Curriculum and Instruction I (Social Science)</td>
<td></td>
</tr>
<tr>
<td>MLL 750</td>
<td>Curriculum and Instruction I: Foreign Languages (World Languages)</td>
<td></td>
</tr>
</tbody>
</table>

Second Semester: Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S ED 660</td>
<td>Student Teaching – Single Subject</td>
<td>9</td>
</tr>
<tr>
<td>S ED 752</td>
<td>Professional Perspectives and Practices</td>
<td>3</td>
</tr>
<tr>
<td>S ED 790</td>
<td>Second Language Development</td>
<td>3</td>
</tr>
<tr>
<td>Curriculum and Instruction II – discipline based; see course number below:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDUC 755</td>
<td>Curriculum and Instruction II (Art)</td>
<td></td>
</tr>
<tr>
<td>ENG 714</td>
<td>Curriculum and Instruction II: English (English)</td>
<td></td>
</tr>
<tr>
<td>S ED 769</td>
<td>Curriculum and Instruction II (Mathematics)</td>
<td></td>
</tr>
<tr>
<td>MUS 761</td>
<td>Curriculum and Instruction II: Music (Music)</td>
<td></td>
</tr>
<tr>
<td>KIN 751</td>
<td>Curriculum and Instruction II: Physical Education (Physical Education)</td>
<td></td>
</tr>
<tr>
<td>S ED 769</td>
<td>Curriculum and Instruction II (Science)</td>
<td></td>
</tr>
<tr>
<td>S ED 769</td>
<td>Curriculum and Instruction II (Social Sciences)</td>
<td></td>
</tr>
<tr>
<td>MLL 751</td>
<td>Curriculum and Instruction II: Foreign Languages (World Languages)</td>
<td></td>
</tr>
</tbody>
</table>

Candidates who are currently teaching as pre-interns or interns may be eligible for the internship program; the courses must be distributed over a minimum of three semesters. Four semesters are recommended.
Three Semester Program for Part-Time Students

First Semester, Spring:
- S ED 701  Teaching for Equity in Secondary Schools  3
- S ED 790  Second Language Development  3

Second Semester, Fall:
- S ED 640  Supervised Observation/Participation in Public Schools  3
- S ED 720  Literacy Across Content Areas  3
- S ED 751  Classroom Environment and Management  3
- S ED 800  Adolescent Development  3

Curriculum and Instruction I, discipline-based (select one):  3
- EDUC 750  Curriculum and Instruction in Art (Art)
- ENG 713  Seminar in Curriculum and Instruction in English I (English)
- CFS 699  Independent Study (Home Economics)
- S ED 759  Curriculum and Instruction I (Mathematics)
- MUS 760  Curriculum and Instruction I: Music (Music)
- KIN 750  Curriculum and Instruction I: Physical Education (Physical Education)
- S ED 759  Curriculum and Instruction I (Science)
- MLL 750  Curriculum and Instruction I: Foreign Languages (World Languages)

Third Semester, Spring:
- S ED 660  Student Teaching: Single Subject  9
- S ED 752  Professional Perspectives and Practices  3

Curriculum and Instruction II - discipline-based - select one:  3
- EDUC 755  Curriculum and Instruction II (Art)
- ENG 714  Curriculum and Instruction II: English (English)
- S ED 769  Curriculum and Instruction II (Mathematics)
- MUS 761  Curriculum and Instruction II: Music (Music)
- KIN 751  Curriculum and Instruction II: Physical Education (Physical Education)
- S ED 769  Curriculum and Instruction II (Social Science)
- MLL 751  Curriculum and Instruction II: Foreign Languages (World Languages)

S ED 751/S ED 640 and S ED 752/S ED 660 must be taken concurrently with the student teaching courses. These are cohort courses designated for students with a high school emphasis, middle school emphasis, or intern teacher emphasis.

The first student teaching course (S ED 640) includes experiences in middle level or high schools, hard-to-staff schools, and classrooms with English language learners. It is comprised of approximately 8–10 hours per week. The subsequent student teaching course (S ED 660) may also take place in similar schools. Candidates spend approximately 20–25 hours per week in the classroom (schedule may vary throughout the semester).

Student teaching hours are completed in accordance with the school site academic calendar, not the SF State academic calendar. Some teaching hours may be during the third week in August or the first three weeks of January, when SF State classes are not in session.

Students in the two-semester program will complete 90 hours of observation in the first semester (fall) for S ED 640.

If admitted to the program, credential candidates will have an opportunity to express their geographic preferences for a school site. Candidates are given their school site assignments and more specific information about the schedule at the mandatory New Student Orientation.

Education Specialist Credential Programs

Special Education

The curriculum meets the licensing requirements of the Commission on Teacher Credentialing. Programs are organized in a two-tiered system: the Preliminary and the Clear Education Specialist.

Preliminary Education Specialist programs include requirements in a general education component, core requirements including health education and CPR, plus specialization courses including student teaching. The education specialist credentials meet standards for special education Birth to Grade 12 teachers. The Preliminary credential allows graduates to teach in the area of specialization for five years.

The Clear Education Specialist program includes core requirements and advanced curricular content for each specialization area. The Clear Credential program must be completed within five years of the award of the Preliminary education specialist credential.

Admission Procedures

Admission to post-baccalaureate programs is based on the evaluation of applications to both the department and to the University. A minimum 3.0 GPA is required for admission to credential programs and must be maintained for continuation in the program. All applicants for the Education Specialist Credentials are also required to apply at the same time to the Master of Arts Degree in Special Education. If a prospective applicant already has a master’s degree, they may petition the department chair to be exempt from this requirement. Applications are available from:

Graduate College of Education Credential and Graduate Services Center
Burk Hall 244
(415) 405–3594
Email: credinfo@sfsu.edu
or
Department of Special Education
(415) 338–1161
Email: spedcd@sfsu.edu
Website: spedcd.sfsu.edu (http://spedcd.sfsu.edu).
Check for application deadlines and requirements.

Preliminary education specialist credential programs are approved for the following areas:

- Early Childhood Special Education (Birth to pre-K only) – mild to moderate and moderate to severe disabilities and traumatic brain injury.
- Mild/Moderate Disabilities (K–12, adults up to 22 years) – specific learning disabilities, autism spectrum disorder, mild to moderate intellectual disabilities, other health impairment, and emotional disturbance.
• Moderate/Severe Disabilities (K–12, adults up to 22 years) – autism spectrum disorder, mild to moderate intellectual disabilities, deaf-blindness, emotional disturbance, and multiple disabilities.
• Visual Impairments (Birth–22 years) – blind, visually impaired, deaf-blind, and autism spectrum disorder.
• Early Childhood Special Education Certificate – supplemental to Education Specialist Credentials and approved by the California Commission on Teacher Credentialing (if not earning separate Early Childhood Special Education Credential, any specialist credential can add on this certificate to expand authorization for Mild/Moderate Disabilities, Moderate/Severe Disabilities, Visual Impairments, or for professional growth).

For Orientation and Mobility specialization and Speech–Language Pathology services see Other Services Credentials (p. 343).

Substitution of Requirements
Substitutions of course and field placement requirements may be granted when candidates have prior transcript credit and when the required skill, knowledge, and performance competencies have been mastered and verified. The department chair and faculty in the area of specialization review and approve requests for course substitutions.

Preliminary Education Specialist Credential
Program requirements include the following:
• A baccalaureate degree from a regionally accredited college or university.
• Satisfy Subject Matter Competency Requirement: Successful passage of the CSET Multiple Subjects Test or by completing a subject matter program prior to admission. May be satisfied by completing the subject matter requirements outlined for the Multiple Subject or Single Subject Credentials. Required for all education specialist areas except Early Childhood Special Education.
• Demonstrate knowledge of the principles of the United States Constitution. Applicants may satisfy the U.S. Constitution requirement either by course work or examination.
• Satisfy Basic Skills Requirement: successful passage of the California Basic Educational Skills Test (CBEST), CSET Multiple Subjects Test plus Writing Skills Test, OR an approved out-of-state basic skills exam (required for admission). Refer to the Department application for additional ways of satisfying the Basic Skills Requirement using the ELM/ EPT, SAT, and/ or ACT scores.
• Complete Certificate of Clearance: Fingerprint Clearance via LiveScan and Commission on Teacher Credentialing online application (required for admission).
• Complete a Certificate of Clearance (fingerprinting) prior to fieldwork (required for admission).
• Pass the Reading Instruction Competence Assessment (R.I.C.A.) examination. RICA is required for all education specialist areas, except Early Childhood Special Education, prior to award of Credential.
• Apply for student teaching, with annual deadlines of February 28 for fall enrollment and September 28 for spring enrollment.
• Submit a Credential Approved Program (CAP) prior to student teaching reflecting all course work completed or to be completed and non-curricular requirements (submitted with the application for student teaching).
• Cardiopulmonary Resuscitation (CPR): must cover infant, child and adult CPR; online course not acceptable.

Education Specialist Credentials: Special Education
Core Requirements for Preliminary Education Specialist Credentials (7–9 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 630</td>
<td>Elementary School Health</td>
<td>3</td>
</tr>
<tr>
<td>SPED 788</td>
<td>Law, Ethics, and Instructional Planning</td>
<td>3</td>
</tr>
<tr>
<td>SPED 801</td>
<td>Development, Diversity, and English Language Learners: Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Health Education courses are offered through the College of Extended Learning. A list of health education courses approved for substitution is available on the department website: spedc.sfsu.edu/content/forms-0 (http://spedc.sfsu.edu/content/forms-0)

General Education Requirements (6 Units)
Not required if the student possesses a Multiple Subject or Single Subject Credential, or if pursuing Early Childhood Special Education preliminary credential.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 784</td>
<td>Curriculum and Instruction in Mathematics (CLAD Emphasis)</td>
<td>3</td>
</tr>
<tr>
<td>E ED 882</td>
<td>Literacy Instruction in K-12 Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>or E ED 708</td>
<td>First and Second Language Development in Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Early Childhood Special Education (44–56 Units)
Core and General Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 729</td>
<td>Student Teaching Workshop: Early Childhood Special Education (2 units total)</td>
<td>1</td>
</tr>
<tr>
<td>SPED 730</td>
<td>Student Teaching: Special Education (6-18 units total)</td>
<td>3-9</td>
</tr>
<tr>
<td>SPED 737</td>
<td>Infant Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SPED 738</td>
<td>Preschool Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SPED 747</td>
<td>Physical Disabilities and Sensory Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 774</td>
<td>Positive Behavior Support</td>
<td>3</td>
</tr>
<tr>
<td>SPED 777</td>
<td>Development and Learning of Young Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>SPED 779</td>
<td>Family Systems and Services for Young Children with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 780</td>
<td>Assessment and Program Evaluation in Early Childhood Special Education Setting</td>
<td>3</td>
</tr>
<tr>
<td>SPED 825</td>
<td>Behavior and Instructional Supports: Autism</td>
<td>3</td>
</tr>
<tr>
<td>SPED 885</td>
<td>Advanced Topics in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Student teaching requires a one-semester placement with preschool children and a second-semester placement with infant/toddlers.

Early Childhood Special Education Certificate (38–50 Units)
The certificate program is supplemental to authorization programs for Education Specialist Teaching Credentials and for individuals not earning a separate Early Childhood Special Education Credential. This supplemental certificate expands authorization for individuals who wish to work with young children from birth through five years with the
following preliminary education specialist credentials: Mild/Moderate Disabilities, Moderate/Severe Disabilities, and Visual Impairments.

Prerequisite: Preliminary Education Specialist Credential

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 729</td>
<td>Student Teaching Workshop: Early Childhood Special Education (2 units total)</td>
<td>1</td>
</tr>
<tr>
<td>SPED 730</td>
<td>Student Teaching: Special Education (6-18 total units)</td>
<td>3-9</td>
</tr>
<tr>
<td>SPED 737</td>
<td>Infant Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SPED 738</td>
<td>Preschool Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SPED 747</td>
<td>Physical Disabilities and Sensory Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 774</td>
<td>Positive Behavior Support</td>
<td>3</td>
</tr>
<tr>
<td>SPED 777</td>
<td>Development and Learning of Young Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>SPED 779</td>
<td>Family Systems and Services for Young Children with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 780</td>
<td>Assessment and Program Evaluation in Early Childhood Special Education Setting</td>
<td>3</td>
</tr>
<tr>
<td>SPED 787</td>
<td>Advanced Assessment and Instruction for Students with Moderate/Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 825</td>
<td>Behavior and Instructional Supports: Autism</td>
<td>3</td>
</tr>
<tr>
<td>SPED 885</td>
<td>Advanced Topics in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Student teaching requires a one-semester placement with preschool children and a second-semester placement with infant/toddlers.

Contact the department for more information: (415) 338–1161 or spedcd@sfsu.edu.

Mild/Moderate Disabilities (46–48 Units)
Core and General Education 13–15 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 726</td>
<td>Workshop: Student Teaching Support Sessions for Mild/Moderate Disabilities or Orientation Mobility</td>
<td>3</td>
</tr>
<tr>
<td>SPED 730</td>
<td>Student Teaching: Special Education</td>
<td>9</td>
</tr>
<tr>
<td>SPED 763</td>
<td>Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 770</td>
<td>Mild/Moderate Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 772</td>
<td>Assessment, Curriculum, and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>SPED 774</td>
<td>Positive Behavior Support</td>
<td>3</td>
</tr>
<tr>
<td>SPED 775</td>
<td>Advanced Methods in Mild/Moderate Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 778</td>
<td>Advanced Literacy and Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 791</td>
<td>Nature of Autism Spectrum Disorders</td>
</tr>
<tr>
<td>SPED 794</td>
<td>Communication, Socialization and Imagination: Autism</td>
</tr>
<tr>
<td>SPED 825</td>
<td>Behavior and Instructional Supports: Autism</td>
</tr>
</tbody>
</table>

Moderate/Severe Disabilities (52–54 Units)
Core and General Education 15 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 723</td>
<td>Workshop: Student Teaching Support Sessions for Moderate/Severe Disabilities or Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 730</td>
<td>Student Teaching: Special Education</td>
<td>9</td>
</tr>
<tr>
<td>SPED 745</td>
<td>Environmental Design for Students with Moderate/Severe Disabilities</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 747</td>
<td>Physical Disabilities and Sensory Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 763</td>
<td>Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 773</td>
<td>Methods of Assessment and Instruction for Students with Moderate/Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 787</td>
<td>Advanced Assessment and Instruction for Students with Moderate/Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 789</td>
<td>Advanced Environmental Design for Students with Moderate/Severe Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 791</td>
<td>Nature of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPED 821</td>
<td>Fieldwork in Moderate/Severe Disabilities (6 total units)</td>
<td>3</td>
</tr>
</tbody>
</table>

Visual Impairments (58–60 Units)
Core and General Education 15 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 655</td>
<td>Basic Orientation and Mobility for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 723</td>
<td>Workshop: Student Teaching Support Sessions for Moderate/Severe Disabilities or Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 730</td>
<td>Student Teaching: Special Education</td>
<td>9</td>
</tr>
<tr>
<td>SPED 735</td>
<td>Technology for Visually Impaired Students</td>
<td>2</td>
</tr>
<tr>
<td>SPED 749</td>
<td>Medical, Educational, and Rehabilitative Implications of Visual Impairment</td>
<td>4</td>
</tr>
<tr>
<td>SPED 750</td>
<td>Assessment for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 751</td>
<td>Instruction for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 752</td>
<td>Issues in Visual Impairment</td>
<td>3</td>
</tr>
<tr>
<td>SPED 753</td>
<td>Living Skills Assessment and Instruction for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 754</td>
<td>Basic Communication Skills for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 757</td>
<td>Visual Impairment: Special Populations</td>
<td>3</td>
</tr>
<tr>
<td>SPED 758</td>
<td>Advanced Communication Skills for Learners with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 763</td>
<td>Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

Clear Education Specialist Teaching Credential — 6 units
The Clear Education Specialist Teaching Credential at San Francisco State University is a field-based program. Starting in Fall 2010, all students admitted to the Clear Education Specialist Credential enroll in SPED 740 over two consecutive semesters.

Clear Credential Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 740</td>
<td>Education Specialist Credential Induction Plan (6 units total)</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to SPED 740, students who completed the former Preliminary Level I Education Specialist Credential prior to September 1, 2010, may be advised to take a few additional classes if not previously completed (e.g., SPED 763; SPED 791; SPED 825; and Health Education requirement).

The Clear Education Specialist Credential enables teachers to apply their Preliminary preparation to the demands of professional positions while also gaining advanced skills and knowledge. Requirements include the following:

- Recommendation for the Preliminary Education Specialist program.
• Preparation and completion of a Credential Approved Program reflecting a summary of course work completed and non-curricular requirements associated with the Clear program, including enrollment in SPED 740 over two consecutive semesters.
• Equivalent work experience approved in consultation with employer and university advisor.

Guidelines and forms are available at spedcd.sfsu.edu (http://spedcd.sfsu.edu). The website provides all forms and guidelines.

Education Specialist Added Authorizations

Authorization in Autism Spectrum Disorders (ASD)
Students who currently have a Preliminary or Clear Education Specialist Credential in Deaf/Hard of Hearing, Mild-Moderate Disabilities, Physical and Health Impairments or Visual Impairments, issued prior to July 1, 2010, and would like to be authorized to work with students with Autism Spectrum Disorders, may complete the courses listed below and apply to the Commission on Teacher Credentialing (CTC) for an ASD Authorization to be added to your existing Education Specialist Credential.

Students who currently have a Preliminary or Professional Clear Education Specialist Credential issued prior to September 1, 2010, in Moderate-Severe Disabilities or Early Childhood Special Education (or the added CTC Certificate in Early Childhood Special Education), are already authorized to work with students with ASD and are not eligible to apply for the ASD Added Authorization.

Students in all program areas who are working towards a Preliminary Credential under the new standards implemented after July 1, 2010, will be authorized to work with students with ASD upon completion of the authorization program and receipt of their Preliminary Credential. Each course requires 25 hours of field experience with students with ASD.

Authorization in Autism Spectrum Disorders – 9 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SPED 791</td>
<td>Nature of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPED 794</td>
<td>Communication, Socialization and Imagination:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Autism</td>
<td></td>
</tr>
<tr>
<td>SPED 825</td>
<td>Behavior and Instructional Supports: Autism</td>
<td>3</td>
</tr>
</tbody>
</table>

Authorization for Orthopedically Impaired (OI) – 9 Units

Students who currently have a Preliminary or Clear Education Specialist Credential in the following areas, Deaf/Hard of Hearing, Early Childhood Special Education, Mild-Moderate Disabilities, Moderate-Severe Disabilities, or Visual Impairments, and would like to be authorized to work with students who are Orthopedically Impaired (OI), may complete the courses listed below and apply to the Commission on Teacher Credentialing (CTC) for the OI Authorization to be added to your existing Education Specialist Credential.

Students who currently have a Preliminary or Clear Education Specialist Credential in Physical & Health Impairments, are already authorized and not eligible to apply for the OI Added Authorization.

Specialist Credential Programs

Specialist Instruction Credentials
A specialist instruction credential authorizes the holder to work as a specialist in the area designated. Specialty preparation requires advanced course work and development of special competencies.

Reading and Language Arts Specialist Credential – 30 units
The curriculum meets the licensing requirement of the Commission on Teacher Credentialing. The Reading and Language Arts Specialist Credential may be combined with the Master of Arts: Concentration Language and Literacy. Admission to the program requires a 3.0 GPA. The student must maintain a B average or better while in the program.

Prerequisites
• A valid basic teaching credential.
• Verification of successful classroom teaching experience.
Passing score on the commission’s examination for the teaching of reading or successful completion of one of the following commission-approved reading methods courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S ED 720</td>
<td>Literacy Across Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>E ED 782</td>
<td>Teaching Reading/Language Arts K-3</td>
<td>3-4</td>
</tr>
<tr>
<td>E ED 737</td>
<td>Teaching Social Studies, Social Justice, and Literacy: Grades 3-6</td>
<td>3</td>
</tr>
</tbody>
</table>

**Teaching Experience**

Successful completion of three years of teaching in a classroom situation must be verified in writing by the administrator(s) involved in the settings where the experience took place by completion of the Reading Specialist Program.

**Note:** Candidates may complete the course work for the Specialist Credential without the completed three years of teaching experience. However, they will not be issued the credential until the three years of experience are verified.

Objectives for reading specialists are as follows:

- Collaborate and consult at school sites/districts.
- Develop a firm understanding of the professional responsibilities as an educational agent for change at the school site and district level.
- Understand the current California State standards and curriculum changes as these apply to policy, curriculum, and practice.
- Become the reading/language arts liaison between the state, the district, and the school site.
- Envision their role to coordinate and provide leadership for the school-wide literacy program.
- Develop a vision of how they will provide home-school connections that support literacy development.
- Research ways to serve as a resource for community literacy development in English, English as a second language, or in the native language of the community.
- Provide professional development for school site teachers, paraprofessional, and parents on research-based instructional strategies.
- Serve as a resource for guiding assessment.
- Provide individual assessment for students who are struggling in literacy.
- Provide direct assessment to English language learners and guide the classroom teachers on effective instructional strategies that support literacy development.
- Promote the use of multiple assessment tools, both formal and informal, to the staff.
- Contribute to the design and implementation of a school-wide assessment that is aligned with the state standards in reading/language arts.
- Use assessment as a form to inform instructional decision making for the school site.
- Interpret assessment results for the school staff, parents, and community.
- Apply expertise to distinguish reading and writing difficulties from second language acquisition development as these areas pertain to English language learners.
- Assist school staff and parents to locate community resources to meet individual needs of a student that are within and beyond the school.
- Articulate and deliver instruction by gaining knowledge in the following areas: literacy theories, assessment, and classroom applications.
- Examine research-based theories and methods of balanced early literacy instruction in reading, writing, listening, and speaking for use in linguistically and culturally diverse classroom settings.
- Examine, demonstrate, and practice classroom techniques and daily professional development sessions and classroom practice that provide for and build upon diversity in students’ abilities, personal interests, linguistics, cultural and socioeconomic background characteristics.
- Describe and demonstrate a variety of approaches to the organization of literacy instruction; e.g., individual, whole-class, homogenous and heterogeneous small groups, cooperative and collaborative groups.
- Examine and evaluate instructional materials for reading and writing in English and English as a second language, with a focus on skills and comprehensive literacy development and aligned with the California English Language Arts and the California Language Development Frameworks and California English Development and English Language Arts: Standards for English Learners.
- Implement instructional methods and materials in reading and writing that build motivation and self-esteem by addressing individual pupil need, interests, social, emotional, linguistic, and cultural background factors.
- Describe, demonstrate, and practice techniques for diagnostic evaluation, formal and informal assessment in reading and writing development for native speakers and English language learners in the culminating portfolio, class discussions, and presentation.
- Research, discuss, and compare a variety of genre materials for literacy development (including technology and other media), functional, recreational, and expository purposes that reflect cultural and linguistic diversity for kindergarten to twelfth grades (selecting an appropriate range for the reading specialist’s grade span).
- Apply knowledge for teaching reading/language arts and second language acquisition strategies to scaffold English language learners who will need additional support in the English language structure, vocabulary development, and understanding of orthographic patterns.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 725</td>
<td>Classroom Issues in Language, Literacy, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>E ED 708</td>
<td>First and Second Language Development in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>E ED 770</td>
<td>Teaching Integrated Literacy and Assessment, TK-5 (Grades K - 5)</td>
<td>3</td>
</tr>
<tr>
<td>E ED 771</td>
<td>Literacy Clinic II: Multidisciplinary Assessment and Remediation of Language and Literacy Problems (Grades 6 - 12)</td>
<td>3</td>
</tr>
<tr>
<td>E ED 785</td>
<td>Literacy Theories: Connections to Classroom Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>E ED 705</td>
<td>Exploring Child and Adolescent Literature</td>
<td></td>
</tr>
<tr>
<td>E ED 703</td>
<td>Family Literacy Studies of the Elementary Age Child</td>
<td>3</td>
</tr>
<tr>
<td>E ED 763</td>
<td>Integrating Language, Literacy, and Technology in Elementary School Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>
E ED 760  Seminar on Social Issues and Curriculum Development
E ED 850  Seminar in Early Childhood Mathematics and Science Curriculum

**Classroom Application Required**
E ED 720  Research and Practice in Language and Literacy Education 3
E ED 726  Engaging Young Writers in Classroom Settings, TK-12 3
E ED 869  Enhancing Access for Bi-Literate Learner, TK-12 (grades K-12) 3

**Culminating Activity in Professional Leadership**
E ED 723  Inservice Leadership in Reading 3

**Reading Certificate**
San Francisco State University offers a fifteen-unit Reading Certificate consisting of five courses, all of which apply to the Reading and Language Arts Specialist Credential, should the Reading Certificate candidate wish to complete the more advanced credential.

The Reading Certificate authorizes the holder to assess student reading and provide reading instruction in response to the assessments. The holder is also authorized to develop, implement, and adapt the reading and content curriculum, and assist classroom teachers in these areas. The certificate holder may perform these services at one or more school sites at the grade levels authorized by their prerequisite credential.

**Application Process**
In addition to the university graduate application, please submit the following to the:

Reading/Language Arts Coordinator
San Francisco State University
Department of Elementary Education
College of Education
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132

Submit a statement of purpose, unofficial transcript, and two letters of recommendation addressing professional and academic abilities.

**School Services Credential Programs**
School services credentials authorize the holders to perform services for a school district other than classroom teaching. Preparation for the services credentials requires advanced study and administrative competence. A GPA of 3.0 or better is required for course work completed and listed on the Credential Approved Program (CAP) and a grade of C or better must be earned in every course attempted.

The approved programs at San Francisco State University include Administrative Services, Clinical or Rehabilitative Services (Orientation and Mobility), Pupil Personnel Services, Speech-Language Pathology Services (Language, Speech, and Hearing).

**Administrative Services**
This credential authorizes the holder to serve as a superintendent, deputy superintendent, principal, assistant principal, supervisor, consultant, coordinator or other equivalent intermediate-level positions.

Requirements may be met by successful completion of an accredited credential program offered by the Department of Equity, Leadership Studies, and Instructional Technologies, San Francisco State University.

Prerequisites required for the five-year preliminary administrative services credential are the following:

- A valid California teaching credential or pupil personnel services credential, health services credential, or library services credential or designated subjects credential with a baccalaureate degree, or a Clinical or Rehabilitative Services Credential.
- Satisfy the Basic Skills Requirement. Successful passage of one of the following:
  - California Basic Educational Skills Test (CBEST)
  - CSET Multiple Subjects Test plus Writing Skills Test
  - A Commission-approved out-of-state basic skills exam
  - CSU Early Assessment Program (EAP) Placement Test
  - Entry Level Math & English Placement Test (ELM & EPT)
- A minimum of five years of successful full-time teaching or pupil personnel or health services, or library services experience (or combination) in public schools or private schools of equal status. Community college experience is not acceptable.

Upon completion of the program, the candidate will receive a Preliminary Administrative Services credential or a Certificate of Eligibility credential if an administrator position is not yet secured. The Certificate of
Eligibility authorizes seeking initial employment as an administrator but does not authorize actual administrative service.

**Internship Program**
Available to students who are offered administrative positions and need the Administrative Internship Credential. Entry into this program requires a request from the district office to the chair of the Department of Equity, Leadership Studies, and Instructional Technologies.

The following courses are for students admitted into the internship program only; students must have prior approval by the internship faculty advisor.

EDAD 822 for EDAD 733; EDAD 823 for EDAD 743; EDAD 824 for EDAD 753 (3 unit courses)

**Preliminary Administrative Services Credential – 33 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 713</td>
<td>Administrative Processes</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 714</td>
<td>Practicum: Site Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 723</td>
<td>School Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 733</td>
<td>Curricular Leadership for Multicultural Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 743</td>
<td>Educational Planning, Technology, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 753</td>
<td>Human Resource Administration in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 763</td>
<td>Law and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 774</td>
<td>Change Processes and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 784</td>
<td>Special Education Administration</td>
<td>3</td>
</tr>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 892</td>
<td>Internship - Educational Administration II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** Entry-level assessment of administrative competence is conducted at EDAD 713 and EDAD 892 for the exit-level assessment.

**Pupil Personnel Services Credential**
This credential authorizes the holder to perform, at all grade levels, the service designated on the credential that may include the following:

- School Counseling
- School Psychology
- School Social Work

Requirements for the Pupil Personnel Services credential are the following:

- A master's degree or higher from a regionally accredited college or university in the authorization area.
- Completion of a Commission-approved professional preparation program in the authorization area, including a practicum with school-aged children.
- Satisfy the Basic Skills Requirement (Required for admission).
  Success passage of one of the following:
  - California Basic Educational Skills Test (CBEST)
  - CSET Multiple Subjects Test plus Writing Skills Test
  - A Commission-approved out-of-state basic skills exam
  - CSU Early Assessment Program (EAP) Placement Test
  - Entry Level Math & English Placement Test (ELM & EPT)
  - Complete the Certificate of Clearance (fingerprinting) process.

All of the programs at this university are at least two-year programs and usually include a master’s degree. Each department may have additional credential requirements in addition to those listed above. Students should inquire at the appropriate departments for up-to-date information.

**Other Services Credential Programs**

**Clinical or Rehabilitative Services: Orientation and Mobility**
The Clinical or Rehabilitative Services Credential qualifies graduates to work as Orientation and Mobility specialists. This credential authorizes the holder to teach orientation and mobility techniques to individuals who are visually impaired or blind from infancy through adulthood. Specialists for the visually impaired teach orientation skills, such as using landmarks and sensory cues, familiarizing oneself with the environment, and guiding oneself towards a destination. Orientation and Mobility specialists teach mobility skills for route travel, street crossings, and use of public transportation. Instruction may take place outdoors and indoors in homes and public buildings. When appropriate, lessons in cane technique and maximum use of residual vision may also be taught to ensure safe and efficient travel.

Program requirements for the Clinical or Rehabilitative Services: Orientation and Mobility Credential include the following:

- Completion of a baccalaureate degree
- Formal application to both the department and University
- Official transcripts
- A minimum 3.0 GPA is required for admission to credential programs and must be maintained for continuation in the program
- All applicants are also required to apply to the Master of Arts Degree in Special Education. If a prospective applicant already has a master’s degree, they may petition the department chair to be exempt from this requirement.
- Satisfy Basic Skills Requirement: successful passage of the California Basic Educational Skills Test (CBEST), CSET Multiple Subjects Test plus Writing Skills Test, OR an approved out-of-state basic skills exam (required for admission). Refer to the Department application for additional ways of satisfying the Basic Skills Requirement using the ELM/ EPT, SAT, and/or ACT scores.
- Complete Certificate of Clearance: Fingerprint Clearance via LiveScan and Commission on Teacher Credentialing online application (required for admission).
- Completion of the Certificate of Clearance (fingerprinting) process (required for admission).
- Application for student teaching with annual deadlines of February 28 for fall enrollment and September 28 for spring enrollment
- Credential Approved Program (CAP) prior to student teaching reflecting all course work taken or to be completed, as well as non-curricular requirements (submitted with application for student teaching).

**Program Requirements (46 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 788</td>
<td>Law, Ethics, and Instructional Planning</td>
<td>3</td>
</tr>
<tr>
<td>SPED 747</td>
<td>Physical Disabilities and Sensory Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 749</td>
<td>Medical, Educational, and Rehabilitative Implications of Visual Impairment</td>
<td>4</td>
</tr>
<tr>
<td>SPED 753</td>
<td>Living Skills Assessment and Instruction for Learners with Visual Impairments</td>
<td>3</td>
</tr>
</tbody>
</table>
SPED 655  Basic Orientation and Mobility for Learners with Visual Impairments  3
SPED 756  Orientation and Mobility Seminar  3
SPED 757  Visual Impairment: Special Populations  3
SPED 760  Methods in Orientation and Mobility I  3
SPED 792  Methods in Orientation and Mobility II  3
SPED 822  Methods in Orientation and Mobility III  3
SPED 823  Methods in Orientation and Mobility IV  3
SPED 726  Workshop: Student Teaching Support Sessions for Mild/Moderate Disabilities or Orientation Mobility  3
SPED 730  Student Teaching: Special Education  9

Speech-Language Pathology Services Credential: Language, Speech & Hearing

The Speech-Language Pathology Services Credential qualifies graduates to work as language, speech, and hearing specialists. To work in public schools, completion of the Master of Science in Communicative Disorders is required in addition to the credential.

To continue professional training in communicative disorders and become a practitioner, a student must complete a master’s degree. Upon completion of baccalaureate degree requirements, applicants must apply to and complete a graduate program. New graduate level and transfer students may enter the program following formal admission procedures at both the department and University levels.

Program requirements for the Speech-Language Pathology Services Credential include the following:

- Completion of a baccalaureate degree in Communicative Disorders. If the B.A. is in another area, the applicant must complete the 12 undergraduate courses in Communicative Disorders as listed on the SFSU CD website,
- Applicants must possess a bachelor’s degree in Communicative Disorders or the equivalent, which is 12 undergraduate courses in Communicative Disorders as listed on the SFSU CD website, http://comdis.sfsu.edu/bachelors
- Formal application to both the department program and University.
- Official transcripts with minimum 3.0 GPA are required for admission to a credential program.
- Satisfy Basic Skills Requirement: successful passage of the California Basic Educational Skills Test (CBEST), CSET Multiple Subjects Test plus Writing Skills Test, OR an approved out-of-state basic skills exam (required for admission). Refer to the Department application for additional ways of satisfying the Basic Skills Requirement using the ELM/ EPT, SAT, and/or ACT scores.
- Complete Certificate of Clearance: Fingerprint Clearance via LiveScan and Commission on Teacher Credentialing online application (required for admission)
- Application for student teaching with annual deadlines of February 28 for fall enrollment and September 28 for spring enrollment.
- Credential Approved Program prior to student teaching reflecting all course work taken or to be completed, as well as non-curricular requirements (submitted with application for student teaching).
- Cardiopulmonary Resuscitation (CPR): Must cover infant, child, and adult CPR; online course not acceptable.

Academic Requirements (post-baccalaureate)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 657</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>C D 701</td>
<td>Language Differences and Disorders in Children</td>
<td>3</td>
</tr>
<tr>
<td>C D 706</td>
<td>Counseling in Communicative Disorders</td>
<td>3</td>
</tr>
<tr>
<td>C D 707</td>
<td>Advanced Seminar in Language Disorders in Children (optional)</td>
<td>3</td>
</tr>
<tr>
<td>C D 708</td>
<td>Neurogenic Disorders of Language</td>
<td>3</td>
</tr>
<tr>
<td>C D 709</td>
<td>Seminar in Motor Speech Disorder</td>
<td>3</td>
</tr>
<tr>
<td>C D 710</td>
<td>Seminar in Dysphagia</td>
<td>3</td>
</tr>
<tr>
<td>C D 712</td>
<td>Medical Internship Seminar: Communicative Disabilities (concurrent with C D 882)</td>
<td>1</td>
</tr>
<tr>
<td>C D 725</td>
<td>School Intern Seminar: Communication Disabilities</td>
<td>1</td>
</tr>
<tr>
<td>C D 756</td>
<td>Right Hemisphere Syndrome, TBI, Dementia in Communicative Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>C D 768</td>
<td>Advanced Clinical Skills</td>
<td>3</td>
</tr>
<tr>
<td>ISED 797</td>
<td>Seminar in Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 788</td>
<td>Law, Ethics, and Instructional Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Clinical Practica and Internship Courses (56 units)

(as required by master’s degree, including clock hours that meet ASHA certification)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C D 711</td>
<td>Seminar in Therapy for Functional Communicative Disorders (2 units)</td>
<td>1</td>
</tr>
<tr>
<td>C D 715</td>
<td>Advanced School Internship</td>
<td>5-8</td>
</tr>
<tr>
<td>C D 882</td>
<td>Advanced Medical Internship (experience with adults in a hospital placement - 6 units total)</td>
<td>6</td>
</tr>
<tr>
<td>C D 884</td>
<td>Advanced Diagnosis in Communicative Disorders (all ages)</td>
<td>3</td>
</tr>
<tr>
<td>C D 713</td>
<td>Seminar in Therapy for Organic Communicative Disorders</td>
<td>1</td>
</tr>
</tbody>
</table>
AFRICANA STUDIES

College of Ethnic Studies
Dean: Kenneth P. Monteiro

Department of Africana Studies
EP 103
Phone: (415) 338–2352
Chair: Serie McDougal III

Program Scope
The Department of Africana Studies at San Francisco State University was the first Black Studies Department established on a four-year college campus in the United States. The birth of Black Studies at SF State in 1968 was, in fact, inspired by student-led opposition to the then Western intellectual hegemony and racist scholarship that characterized the limitations found in traditional approaches to college education. In 2005, the Black Studies Department at SF State changed its name to the Africana Studies Department.

Every student should know about the unparalleled and unmatched contributions African and African American people have made to human civilization. These contributions include the formulation of the first system of government for a territorial state; creation of the foundations of science, mathematics, and advanced technology; the first written script, the foundations of philosophy and psychology; the building of the great pyramids and such modern inventions as the first electric light filament, the cotton gin, the first gas mask, the double effect evaporator, and the first design of a three-stage rocket capable of interstellar flight. In the Africana Studies program, students are able to learn about, critique, and be inspired by the accomplishments of African men and women who shaped and are shaping the moral conscience, artistic genius, scientific and technical achievements, and political activism of their time.

The Department of Africana Studies has continued to be in the vanguard of the intellectual discourse pertaining to domestic and global freedom, and the development of African people throughout the world. The maturation of the discipline has resulted in new and innovative alternatives to the traditional paradigms of oppression and exclusion. In addition to learning aspects of human history that have been hidden and/or stolen, students learn how to recognize and challenge intellectual hegemony and racist science. The discipline of Africana Studies not only provides students with the experience of challenging traditional Western orthodoxy, but also gives them an opportunity to explore new and alternative paradigms and theories. In Africana Studies, students acquire and develop an appreciation for the origins of knowledge, the philosophy of science, and the politics of knowing. Students develop a social character and personal outlook that gives them the ability to contribute to the well-being of themselves and humanity. The Africana Studies curriculum is designed to address the needs of the African and African American community as a classroom where lessons can be learned and taught. The discipline of Africana Studies prepares students to not only understand the world they live in but to see where the world is wanting and to have the ability and the desire to make it better.

Professors
Richards, Tsuruta

Associate Professors
Akom, Fischer, Ginwright, McDougal

Assistant Professor
Flannery, Wright

Lecturers
Aaron, Bell, Casey, Cook, Flamer, Hubbard, Jackson, Origunwa, Prince, Spiva

Major
• Bachelor of Arts in Africana Studies (p. 345)

Minor
• Minor Program in Africana Studies (p. 354)

Bachelor of Arts in Africana Studies
Students majoring in Africana Studies are required to complete a program consisting of core courses and electives with emphases in the areas of the humanities and behavioral and social sciences. The core courses (30 units) provide the students with an appreciation of the historical development and intellectual foundation of the discipline as well as the critical knowledge base, intellectual skills, and methodological techniques essential to the field of Africana Studies. The courses offered in the emphases (nine units each) allow the student to gain a deeper intellectual grasp of the field within one of two important emphases.

The Bachelor of Arts in Africana Studies includes core courses (30 units) and an area of emphasis (9 units).

How GWAR is satisfied in the Africana Studies major: ETHS 300GW Writing in Ethnic Studies - GWAR or other approved GWAR course. The writing requirement units are not included in total units for the major.

Africana Studies (B.A.) – 39 units
Core Requirements (30 units)
AFRS 101 Introduction to Africana Studies 3
AFRS 200 Introduction to Black Psychology 3
AFRS 210 Introduction to Africana Literature 3
AFRS 266 Black On-line: Cyberspace, Culture, and Community 3
AFRS 300 From Africa to Olmec America: Ancient African Prehistory and History 3
AFRS 303 African American History 3
AFRS 345 Blacks in Urban America 3
AFRS 375 Law and the Black Community 3
AFRS 515 Black Family Studies 3
AFRS 516 Research Methods 3

Areas of Emphasis (9 units)
Select 9 units on advisement from one area below.
Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for
graduation. In this case, additional upper division courses will be needed to reach the required total.

**African Humanities Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 201</td>
<td>Kemet, Afrocentricity, and the Dawn of Science</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 204</td>
<td>Black Creative Arts</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 208</td>
<td>Introduction to African American History</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 213</td>
<td>Science and Spirituality in Ancient Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 221</td>
<td>African American Music: A 20th Century Survey</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 225</td>
<td>Images and Issues in Black Visual Media</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 230</td>
<td>African American Gospel Workshop</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 271</td>
<td>Elementary Kiswahili Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 301</td>
<td>Africa in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 302</td>
<td>Black Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 305</td>
<td>Ancient Egypt</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 312</td>
<td>Kalifa: The Black Heritage of California</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 326</td>
<td>Black Religion</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 400</td>
<td>Black Arts and Humanities</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 411</td>
<td>African and African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 450</td>
<td>African Philosophy and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 551</td>
<td>Fieldwork in Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 525</td>
<td>Black Child Development</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 665</td>
<td>Black Journalism</td>
<td>3</td>
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</tbody>
</table>

**African Behavioral and Social Sciences Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 100</td>
<td>General Studies Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 111</td>
<td>Black Cultures and Personalities</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 125</td>
<td>Black Community Involvement Workshop</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 202</td>
<td>Black Men's Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 202</td>
<td>Black Men's Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 215</td>
<td>Introduction to Black Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 256</td>
<td>Hip Hop Workshop</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 290</td>
<td>Malcolm X in the Context of Black Nationalism</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 301</td>
<td>Africa in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 310</td>
<td>Anthropology of Blackness</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 320</td>
<td>Black Politics, Mass Movements, and Liberation Themes</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 335</td>
<td>The Black Woman: A Cultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 350</td>
<td>Black-Indians in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 370</td>
<td>Health, Medicine, and Nutrition in the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 370</td>
<td>Health, Medicine, and Nutrition in the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 401</td>
<td>Pan African Black Psychology: A North American, South American and Caribbean Comparison</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 600</td>
<td>Proseminar in Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 646</td>
<td>Frantz Fanon's Psychology of Violence, Negation, and Liberation</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 660</td>
<td>Civil Rights Movement and Education</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 678</td>
<td>Urban Issues of Black Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 705</td>
<td>Seminar in Africana Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Complementary Studies**

Students completing a Bachelor of Arts in Africana Studies must complete twelve units in complementary studies in courses bearing a prefix other than AFRS or courses cross-listed with AFRS. These units may be in

1. a language other than English;
2. one course from each AA S, AFRS, LTNS, and RRS;
3. four courses from one prefix: AA S or AFRS or LTNS or RRS;
4. a minor or certificate;
5. units earned in a study abroad program; or
6. a coherent group of courses complementary to the major.

With the approval of an advisor in the major, courses which fulfill the complementary studies requirement may be lower or upper division units, resident or transfer units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 349)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Social Justice Studies. This roadmap opens in a new tab. (p. 351)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Social Justice Studies
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:
• How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
• a course in U.S. History
• a course in U.S. & California Government
• a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:
• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Africana Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRS 101</td>
<td>Introduction to Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRS 200</td>
<td>Introduction to Black Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 210</td>
<td>Introduction to Africana Literature</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Units</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRS 266</td>
<td>Black On-line: Cyberspace, Culture, and Community</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9 Units Total) On Advisement – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td>15-16</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Electives – Take Three</td>
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<tr>
<td><strong>Units</strong></td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>AFRS 300</td>
<td>From Africa to Olmec America: Ancient African Prehistory and History</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 301</td>
<td>Africa in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Electives – Take Two</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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</tr>
<tr>
<td>AFRS 303</td>
<td>African American History (Major Core)</td>
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</tr>
<tr>
<td>AFRS 345</td>
<td>Blacks in Urban America (Major Core)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Electives – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>AFRS 375</td>
<td>Law and the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 515</td>
<td>Black Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9 Units Total) On Advisement – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Units</td>
<td></td>
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<tr>
<td>---------------------------------------</td>
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<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives – Take Two</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Eighth Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRS 516</td>
<td>3</td>
<td></td>
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<tr>
<td>Major Emphasis (9 Units Total) On</td>
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<td></td>
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<tr>
<td>Advisement – Take One</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Electives – Take Three</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td>120-122</td>
<td></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Serves as the culminating experience for the major.
4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Bachelor of Arts in Africana Studies – SJS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. All lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (p. 57).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRS 101</td>
<td>Introduction to Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 200 or AFRS 210</td>
<td>Introduction to Black Psychology or Introduction to Africana Literature</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 208 or University Elective if US History was met in transfer</td>
<td>Introduction to African American History</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 214 or University Elective if A4 was met in transfer</td>
<td>Second Year Written Composition: Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 326 or University Elective if A4 was met in transfer</td>
<td>Black Religion</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRS 200 or AFRS 210</td>
<td>Introduction to Black Psychology or Introduction to Africana Literature</td>
<td>3</td>
</tr>
<tr>
<td>Core Requirement – See List – Select Two</td>
<td></td>
<td>6</td>
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<tr>
<td>AFRS 376 or University Elective if US/CA Government met in transfer</td>
<td>Government, the Constitution, and Black Citizens</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 300GW or University Elective if US/CA Government met in transfer</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Requirements – See List – Select Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>AFRS 515</td>
<td>Black Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9 Units Total) See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Requirements – See List – Select One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AFRS 516</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9 Units Total) – See List – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1 AFRS 208 and AFRS 326 also count towards AFRS Humanities emphasis.
2 AFRS 376 counts towards AFRS Behavioral and Social Sciences Emphasis.
3 Three or more units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., UD GE and the major.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-wide Requirements: 6–15 Units**

- AFRS 214 or equivalent A4 course if not completed prior to transfer (0–3 units)
• American Institutions (0–6 units): US History, US Government, CA State and Local Government requirements. If not completed before transfer, recommended courses also satisfy specific major requirements. See notes.
• University Graduation Writing Assessment Requirement/GWAR (3 units): ETHS 300GW
• Upper division GE: Take three units to satisfy UD-B. Courses approved for UD-C and UD-D satisfy major requirements.
• Students entering the major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Africana Studies major: 39 Units**

• Core Requirements (30 units) - see list below
• Areas of Emphasis (9 units) – in consultation with a department advisor, choose three courses from either the Africana Humanities Emphasis or the Africana Behavioral and Social Sciences Emphasis. See list below.

**University Electives: 3 or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., in both UD GE and the major.

### Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 266</td>
<td>Black On-line: Cyberspace, Culture, and Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 300</td>
<td>From Africa to Olmec America: Ancient African Prehistory and History</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 303</td>
<td>African American History</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 305</td>
<td>Ancient Egypt</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 345</td>
<td>Blacks in Urban America</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community</td>
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</table>

### Africana Humanities Emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AFRS 201</td>
<td>Kemet, Afrocentricity, and the Dawn of Science</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 204</td>
<td>Black Creative Arts</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 208</td>
<td>Introduction to African American History</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 213</td>
<td>Science and Spirituality in Ancient Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 221</td>
<td>African American Music: A 20th Century Survey</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 225</td>
<td>Images and Issues in Black Visual Media</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 230</td>
<td>African American Gospel Workshop</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 271</td>
<td>Elementary Kiswahili Language and Culture</td>
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</tr>
<tr>
<td>AFRS 301</td>
<td>Africa in Global Perspective</td>
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</tr>
<tr>
<td>AFRS 302</td>
<td>Black Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 305</td>
<td>Ancient Egypt</td>
<td>3</td>
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<tr>
<td>AFRS 312</td>
<td>Kalifa: The Black Heritage of California</td>
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<td>AFRS 326</td>
<td>Black Religion</td>
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<tr>
<td>AFRS 400</td>
<td>Black Arts and Humanities</td>
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<tr>
<td>AFRS 411</td>
<td>African and African American Literature</td>
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<tr>
<td>AFRS 450</td>
<td>African Philosophy and Cosmology</td>
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</tr>
<tr>
<td>AFRS 551</td>
<td>Fieldwork in Africana Studies</td>
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</tr>
<tr>
<td>AFRS 525</td>
<td>Black Child Development</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 665</td>
<td>Black Journalism</td>
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### Africana Behavioral and Social Sciences Emphasis

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<td>AFRS 100</td>
<td>General Studies Colloquium</td>
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<tr>
<td>AFRS 111</td>
<td>Black Cultures and Personalities</td>
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</tr>
<tr>
<td>AFRS 125</td>
<td>Black Community Involvement Workshop</td>
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</tr>
<tr>
<td>AFRS 202</td>
<td>Black Men's Studies</td>
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<tr>
<td>AFRS 202</td>
<td>Black Men's Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 215</td>
<td>Introduction to Black Family Studies</td>
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</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
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<tr>
<td>AFRS 256</td>
<td>Hip Hop Workshop</td>
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<td>AFRS 290</td>
<td>Malcolm X in the Context of Black Nationalism</td>
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<tr>
<td>AFRS 301</td>
<td>Africa in Global Perspective</td>
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<td>AFRS 310</td>
<td>Anthropology of Blackness</td>
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<td>AFRS 320</td>
<td>Black Politics, Mass Movements, and Liberation Themes</td>
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<td>AFRS 335</td>
<td>The Black Woman: A Cultural Analysis</td>
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<td>AFRS 350</td>
<td>Black-Indians in the Americas</td>
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<tr>
<td>AFRS 370</td>
<td>Health, Medicine, and Nutrition in the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 370</td>
<td>Health, Medicine, and Nutrition in the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 401</td>
<td>Pan African Black Psychology: A North American, South American and Caribbean Comparison</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 600</td>
<td>Proseminar in Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 646</td>
<td>Frantz Fanon's Psychology of Violence, Negation, and Liberation</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 660</td>
<td>Civil Rights Movement and Education</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 678</td>
<td>Urban Issues of Black Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 705</td>
<td>Seminar in Africana Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor Program in Africana Studies

Africana Studies Minor — 18 units

Core Requirements (9 units)
Select one course from each category A, B, and C. Additional courses completed in categories B and C count as electives.

A – Foundation
AFRS 101  Introduction to Africana Studies

B – Africana Behavioral and Social Sciences
AFRS 200  Introduction to Black Psychology
AFRS 345  Blacks in Urban America
AFRS 515  Black Family Studies
AFRS 516  Research Methods

C – Africana Humanities
AFRS 210  Introduction to Africana Literature
AFRS 266  Black On-line: Cyberspace, Culture, and Community
AFRS 303  African American History
AFRS 375  Law and the Black Community

Electives (9 units)
Upon advisement.
AMERICAN INDIAN STUDIES

College of Ethnic Studies
Dean: Kenneth P. Monteiro

Department of American Indian Studies
Ethnic Studies and Psychology Building, Room 103
Phone: (415) 405-3928
Chair: Robert Keith Collins, Ph.D.

Program Scope of American Indian Studies
The Department of American Indian Studies educational mission and objectives has a special responsibility to Native peoples of California and the United States. California is the land on which the University and department rest; CSU is a public institution in the United States education system. Therefore, significant aspects of the program and curriculum focus on Natives of California, US-Native politics, and North American Indian cultures with the aim of preparing students to work with Native groups and urban communities in California and the United States. The program also includes an international, comparative perspective and coalitional politics with Native peoples of U.S. occupied territories and more broadly within the Americas and the Pacific. It balances classroom education with an active community participatory learning component. Therefore, it best prepares students for going on to do graduate work or a number of different careers with Native peoples in not only California but internationally.

Learning Objectives
In completing the major and minor program:

1. Students will understand the complex histories, politics, and social issues confronting Native peoples in the context of U.S. colonization, imperialism, and globalization. This understanding will include awareness of the diverse political strategies used by Native peoples to confront the historical legacies of dispossession, genocide, and social inequity and discrimination, including legal action for land restoration and cultural conservation/revitalization efforts.

2. Students will compare and contrast the uniqueness of Native epistemologies and their articulation in contemporary forms of cultural media, such as through literature and the creative arts.

3. Students will gain invaluable experiential knowledge through community service learning, as a way of connecting classroom education to career preparation and advisement.

4. Students will develop the necessary analytical, oral communication, information literacy, and writing skills to prepare them for careers or graduate school in areas related to American Indian Studies.

Community Service Learning
Many courses within the major provide a Community Service Learning (CSL) option, including AIS 205 and AIS 460. This option allows students to integrate classroom education with community participatory learning. Students are enrolled in an AIS core or elective course plus AIS 694 and work with an organization approved by the department for 15 – 45 hours over the course of the semester (depending on the units). AIS 694 is entirely online, with requirements that include short written assignments and a book review. Organizations with which students have served in the past include the American Indian Child Resource Center, California Indian Legal Services, The Cultural Conservancy, International Indian Treaty Council, and the Native American Health Center.

Career Outlook
An American Indian Studies major provides a diverse foundation of knowledge and skills that can be applied to a number of careers. American Indian Studies alumni have and can anticipate securing employment in: agricultural and pastoral enterprises; environmental and cultural rights organizations; ethnography and cultural programs; health care and social work; media and communications industries; museums and cultural centers; teaching; tribal businesses and government; the traditional arts; and, federal and state agencies like the Bureau of Indian Affairs, Environmental Protection Agency, Indian Health Services, National and State Park Services, Title IX Indian Education Program, the U.S. Department of Justice Civil Rights Division, and the U.S. Department of Labor.

Professors
Barker, Jolivette

Associate Professor
Collins, Nelson, Perea

Lecturers
Casselma, Horowitz, Klasky, Madril, Wallace

Majors
- Bachelor of Arts in American Indian Studies (p. 355)

Minors
- Minor in American Indian Studies (p. 363)

Bachelor of Arts in American Indian Studies

The Bachelor of Arts in American Indian Studies (AIS) is designed to challenge students to think critically about the differences and similarities between American Indians’ lives of the past and present and their own. The emphasis placed on duality in the curriculum, links the concerns of tribal communities with academic rigor, enable our faculty to harness their expertise and passion for teaching in ways that lead to greater student cultural competence and prepare them to meet high expectations. The curriculum is focused on four areas of emphasis: 1) California Indian Studies; 2) American Indian Creative Arts and Humanities; 3) Law, Politics and Society; and 4) Science, Health, and Environmental Studies. The knowledge base within these areas prepare students to work academically — and in advocacy — with both tribal and urban Native communities within California and the United States. The courses comprising the B.A. challenge students to actively question the most ingrained myths about American Indians, the roles they have played in the United States and internationally, over time, and the goals of historical and contemporary cultural maintenance and revitalization movements. The program also includes an international, comparative perspective and coalitional politics with Native peoples of U.S. occupied territories and more broadly within the Americas and the Pacific. AIS courses are taught by faculty wedded to the belief that community relationships and pedagogical rigor are the cornerstones upon which student success within the curriculum rests. AIS faculty represent
a small cadre of scholars who have distinguished themselves both nationally and internationally by pushing accepted boundaries within and outside of the field in the areas of cultural ecology, ethnohistory, ethnolinguistics, history of consciousness, mixed-race studies, and music. The interdisciplinary pedagogical excellence of the AIS faculty enables preparation of the next generation of inquisitive American Indian Studies scholars that have a responsibility to Native peoples of California and the United States. AIS Majors experience a balanced classroom education with an active community participatory learning component and are required to regularly seek advising from an AIS faculty member. Completing the Bachelor of Arts in American Indian Studies (AIS) empowers students to do the following:

1. Students will understand the complex histories, politics, and social issues confronting Native peoples in the context of U.S. colonization, imperialism, and globalization. This understanding will include awareness of the diverse political strategies used by Native peoples to confront the historical legacies of dispossession, genocide, and social inequity and discrimination, including legal action for land restoration and cultural conservation/revitalization efforts.

2. Students will compare and contrast the uniqueness of Native epistemologies and their articulation in contemporary forms of cultural media, such as through literature and the creative arts.

3. Students will gain invaluable experiential knowledge through community service learning, as a way of connecting classroom education to career preparation and advisement.

4. Students will develop the necessary analytical, oral communication, information literacy, and writing skills to prepare them for careers or graduate school in areas related to American Indian Studies.

**Community Service Learning**

Many courses within the major provide a Community Service Learning (CSL) option, including AIS 205 and AIS 460. This option allows students to integrate classroom education with community participatory learning. Students are enrolled in an AIS core or elective course plus AIS 694 and work with an organization approved by the department for 15–45 hours over the course of the semester (depending on the units). AIS 694 is entirely on-line, with requirements that include short written assignments and a book review. Organizations with which students have served in the past include the American Indian Child Resource Center, California Indian Legal Services, The Cultural Conservancy, International Indian Treaty Council, and the Native American Health Center.

**Career Outlook**

An American Indian Studies major provides a diverse foundation of knowledge and skills that can be applied to a number of careers. American Indian Studies alumni have and can anticipate securing employment in: agricultural and pastoral enterprises; environmental and cultural rights organizations; ethnography and cultural programs; health care and social work; media and communications industries; museums and cultural centers; teaching; tribal businesses and government; the traditional arts; and, federal and state agencies like the Bureau of Indian Affairs, Environmental Protection Agency, Indian Health Services, National and State Park Services, Title IX Indian Education Program, the U.S. Department of Justice Civil Rights Division, and the U.S. Department of Labor.

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**American Indian Studies (B.A.) – 39 Units**

**Core Requirements (21 Units)**

Students in the major must earn a grade of C or better for each course in the core.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 100</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 150</td>
<td>American Indian History in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AIS 160</td>
<td>Survey of Native California</td>
<td>3</td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws</td>
<td>3</td>
</tr>
<tr>
<td>AIS 300</td>
<td>American Indian Studies Research Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 680</td>
<td>American Indian Studies Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>AIS 694</td>
<td>Community Service Learning (1-3 unit options for a 1-3 total of 3 in any combination)</td>
<td></td>
</tr>
</tbody>
</table>

**Elective Requirements (18 Units)**

The elective requirements are organized into four areas of emphasis. Upon advisement, students may select one course from each area of emphasis (12 units total) and an additional two courses (6 units total) for a total of 18 units; or, they may complete six courses (18 units total) in one area of emphasis where available. Fifteen units must be completed at the upper-division level. Upon department approval, students may choose up to two elective courses (up to 6 units) from other departments/programs on campus.

1. **California Indian Studies**  
   (additional courses in development)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 410</td>
<td>Perspectives of Native California Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS 694</td>
<td>Community Service Learning (for up to 3 additional 1-3 units to the core requirement)</td>
<td></td>
</tr>
</tbody>
</table>

2. **Creative Arts and the Humanities**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 162</td>
<td>American Indian Oral Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS 235</td>
<td>American Indians: Image and Issues in the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>AIS 310</td>
<td>American Indian Religion and Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AIS 320</td>
<td>American Indian Music</td>
<td>3</td>
</tr>
<tr>
<td>AIS 325</td>
<td>American Indian Art</td>
<td>3</td>
</tr>
<tr>
<td>AIS 360</td>
<td>Modern American Indian Authors</td>
<td>3</td>
</tr>
<tr>
<td>AIS 400</td>
<td>American Indian Education</td>
<td>3</td>
</tr>
<tr>
<td>AIS 420</td>
<td>Native Genders and Feminism</td>
<td>3</td>
</tr>
<tr>
<td>AIS 490</td>
<td>Ancestors or Data? Culture, Conflict, and NAGPRA</td>
<td>3</td>
</tr>
<tr>
<td>AIS 500</td>
<td>Language and Cultural Systems of North American Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS 560</td>
<td>Modern Creative and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>AIS 610</td>
<td>Native Americans and Museums</td>
<td>3</td>
</tr>
</tbody>
</table>

3. **Law, Politics, and Society**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 230</td>
<td>Urban Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS 330</td>
<td>American Indian Law</td>
<td>3</td>
</tr>
<tr>
<td>AIS 350</td>
<td>Black-Indians in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>AIS 400</td>
<td>American Indian Education</td>
<td>3</td>
</tr>
<tr>
<td>AIS 420</td>
<td>Native Genders and Feminism</td>
<td>3</td>
</tr>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>AIS 470</td>
<td>American Indian Ethnicity: Problems in Identity</td>
<td>3</td>
</tr>
<tr>
<td>AIS 490</td>
<td>Ancestors or Data? Culture, Conflict, and NAGPRA</td>
<td>3</td>
</tr>
</tbody>
</table>
4. Science, Health, and Environmental Studies
AIS 450 American Indian Science 3
AIS 490 Ancestors or Data? Culture, Conflict, and NAGPRA 3
AIS 520 Before the Wilderness: American Indian Ecoculture 3

Complementary Studies

Students completing a Bachelor of Arts in American Indian Studies must complete twelve units in complementary studies in courses bearing a prefix other than AIS or courses cross-listed with AIS. These units may be in

1. a language other than English;
2. one course from AAS, AFRS, LTNS, and RRS;
3. or four courses from one prefix: AAS or AFRS or LTNS or RRS,
4. partial completion of a minor or certificate;
5. units earned in a study abroad program; or
6. a coherent group of courses complementary to the major.

With the approval of an advisor in the major, courses which fulfill the complementary studies requirement may be lower or upper division units, resident or transfer units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Transfer Student Roadmap (2 Year)

For students with an AA-T in Social Justice Studies. This roadmap opens in a new tab. (p. 361)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Social Justice Studies

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.
A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in American Indian Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 100</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 150</td>
<td>American Indian History in the United States</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Units</strong></td>
<td><strong>15-16</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 160</td>
<td>Survey of Native California</td>
<td>3</td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Units</strong></td>
<td><strong>15-16</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Four</td>
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<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Units</strong></td>
<td><strong>12</strong></td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 300</td>
<td>American Indian Studies Research Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>Law, Politics, and Society – Select One</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Science, Health, and Environmental Studies – Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AIS 450</td>
<td>American Indian Science</td>
<td>3</td>
</tr>
<tr>
<td>AIS 490</td>
<td>Ancestors or Data? Culture, Conflict, and NAGPRA</td>
<td>3</td>
</tr>
<tr>
<td>AIS 520</td>
<td>Before the Wilderness: American Indian Ecology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Units</strong></td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>California Indian Studies – Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 410</td>
<td>Perspectives of Native California Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS 694</td>
<td>Community Service Learning</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
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</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creative Arts and Humanities – Select One 6</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three 4</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Units**: 15

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 680</td>
<td>3</td>
</tr>
<tr>
<td>AIS 694</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three 4</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Units**: 15

**Total Units**: 120-122

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies**

    Students completing a Bachelor of Arts in American Indian Studies must complete twelve units in complementary studies in courses bearing a prefix other than AIS or courses cross-listed with AIS. These units may be in

    1. a language other than English;
    2. one course from AAS (p. 1397), AFRS (p. 1369), LTNS (p. 1653), and RRS (p. 1736);
    3. or four courses from one prefix: AAS (p. 1397) or AFRS (p. 1369) or LTNS (p. 1653) or RRS (p. 1736);
    4. partial completion of a minor or certificate;
    5. units earned in a study abroad program; or
    6. a coherent group of courses complementary to the major.

    With the approval of an advisor in the major, courses which fulfill the complementary studies requirement may be lower or upper division units, resident or transfer units.

5. **Law, Politics, and Society**

    AIS 230 Urban Indians (3 units)
    AIS 330 American Indian Law (3 units)
    AIS 350 Black-Indians in the Americas (3 units)
    AIS 400 American Indian Education (3 units)
    AIS 420 Native Genders and Feminism (3 units)
    AIS 460 Power and Politics in American Indian History (3 units)
    AIS 470 American Indian Ethnicity: Problems in Identity (3 units)
    AIS 490 Ancestors or Data? Culture, Conflict, and NAGPRA (3 units)

6. **Creative Arts and Humanities**

    AIS 162 American Indian Oral Literature (3 units)
    AIS 235 American Indians: Image and Issues in the Mass Media (3 units)
    AIS 310 American Indian Religion and Philosophy (3 units)
    AIS 320 American Indian Music (3 units)
    AIS 325 American Indian Art (3 units)
    AIS 360 Modern American Indian Authors (3 units)
    AIS 400 American Indian Education (3 units)
    AIS 420 Native Genders and Feminism (3 units)
    AIS 460 Power and Politics in American Indian History (3 units)
    AIS 470 American Indian Ethnicity: Problems in Identity (3 units)
    AIS 490 Ancestors or Data? Culture, Conflict, and NAGPRA (3 units)
Bachelor of Arts in American Indian Studies – SJS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. All lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 100</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 150</td>
<td>American Indian History in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AIS 300</td>
<td>American Indian Studies Research Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (select area of emphasis on advisement) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIS 160</td>
<td>Survey of Native California</td>
<td>3</td>
</tr>
<tr>
<td>AIS 694</td>
<td>Community Service Learning</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (select area of emphasis on advisement)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AIS 310</td>
<td>American Indian Religion and Philosophy</td>
<td></td>
</tr>
<tr>
<td>AIS 320</td>
<td>American Indian Music</td>
<td></td>
</tr>
<tr>
<td>AIS 560</td>
<td>Modern Creative and Performing Arts</td>
<td></td>
</tr>
<tr>
<td>AIS 680</td>
<td>American Indian Studies Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (select area of emphasis on advisement) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Units 60

1. AIS 150 satisfies US History.
2. AIS 300 satisfies Upper Division GE: UD-D.
3. AIS 205 satisfies US/CA Government.
4. See Bulletin for current list of AIS Electives.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
University-wide Requirements: 6–9 units
- ENG 214 or equivalent A4 course if not taken before transfer (0–3 units)
- American Institutions: Satisfied by courses required for the AIS core. See notes.
- University Graduation Writing Assessment Requirement/GWAR (3 units): ETHS 300GW
- Upper division GE: Take 3 units to satisfy UD-B. Courses approved for UD-C and UD-D satisfy major requirements.
- Students entering the major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

American Indian Studies Major: 39 units
- Core (21 units)
  - Electives (18 units): Electives are organized into four areas of emphasis: California Indian Studies; Creative Arts and the Humanities; Law, Politics, and Society; Science, Health and Environmental Studies. Students may select Electives from a single emphasis, or from all four emphases. Consult with a department advisor.

University Electives: 12 or More Units
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., in both UD GE and the major.
Minor in American Indian Studies

The Minor in American Indian Studies (AIS) is designed to enable students to understand the differences and similarities between American Indians’ lives of the past and present and their own. Like the AIS major, the duality emphasized within the curriculum, encourages students to explore linkages between the concerns of tribal communities and academic rigor, that lend to greater student cultural competence and understanding of the most ingrained myths about American Indians, the roles they have played in the United States and internationally, over time, and the goals of historical and contemporary cultural maintenance and revitalization movements. AIS Minors develop a basic understanding of the complex histories, politics, and social issues confronting Native peoples in the contexts of U.S. colonization, imperialism, and globalization and experience a balanced classroom education with an active community participatory learning component.

Students in the minor must earn a grade of C or better for each course in the core and regularly seek advising from an AIS faculty member.

American Indian Studies Minor – 24 units

Core Requirements (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 100</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 150</td>
<td>American Indian History in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AIS 160</td>
<td>Survey of Native California</td>
<td>3</td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws</td>
<td>3</td>
</tr>
<tr>
<td>AIS 300</td>
<td>American Indian Studies Research Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 694</td>
<td>Community Service Learning</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Electives (6 units)

Units selected from among the upper division course offerings in American Indian studies on advisement.

Community Service Learning

Many courses within the major provide a Community Service Learning (CSL) option, including AIS 205 and AIS 460. This option allows students to integrate classroom education with community participatory learning. Students are enrolled in an AIS core or elective course plus AIS 694 and work with an organization approved by the department for 15–45 hours over the course of the semester (depending on the units). AIS 694 is entirely on-line, with requirements that include short written assignments and a book review. Organizations with which students have served in the past include the American Indian Child Resource Center, California Indian Legal Services, The Cultural Conservancy, International Indian Treaty Council, and the Native American Health Center.

Career Outlook

An American Indian Studies minor provides a basic foundation of knowledge and skills that can be useful resources for students seeking careers that require working with diverse populations (i.e., museums, health care, social work, teaching, technology, etc.).
ARAB AND MUSLIM ETHNICITIES AND DIASPORAS STUDIES

College of Ethnic Studies
Dean: Kenneth P. Monteiro

Arab and Muslim Ethnicities and Diasporas Studies Program
Ethnic Studies and Psychology Building, Room 427
Phone: (415) 405-2668
Director: Rabab Abdulhadi

Program Scope
The Minor in Arab and Muslim Ethnicities and Diasporas Studies (AMED) is a multidisciplinary program that provides undergraduate students with a justice-centered analysis in which gender, race, ethnicity, sexuality, citizenship, age, ability, and other structural inequalities are integral to the study of Arab and Muslim communities, and addresses the context in which these groups have existed and continue to develop in the current socio-political climate. The program is designed to bring together a wide range of areas including Arab/Middle East/Global Studies, Race/Ethnic Studies, and Critical Cultural Studies. Curricular focus areas include History, Identity, Politics; Pop, Culture, Literature, Art, Creativity, Activism; Gender, Sexuality, Race; Immigration and Citizenship; Comparative Studies with other Communities. AMED provides students with a non-traditional perspective on national and transnational positioning and resistances of Arab and Muslim communities.

Associate Professors
Abdulhadi, Salama

Assistant Professor
Savci

Minor in Arab and Muslim Ethnicities and Diasporas Studies — 15 units
The minor consists of 15 units. Only one-third of the units, or no more than two courses, can be taken on the basis of credit/no credit. Students must maintain at least a 2.0 grade point average in minor courses. Written declaration of the pursuit of the minor is not necessary prior to enrollment in any of its required or elective courses.

Required Core Courses (6 units)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRS 101</td>
<td>Introduction to Arab and Muslim Communities</td>
<td>3</td>
</tr>
<tr>
<td>RRS 255</td>
<td>Voices in Exile: Arab and Muslim American and Civil Liberties post-9/11/2001</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 units)
Must choose one course (3 units) from each section; two courses (6 units) must be upper division of 300 or above. Up to 3 elective units can be chosen from within or outside the College of Ethnic Studies, upon advisement and approval from program chair.

Section I: Arab and Muslim Histories, Identities, and Cultures (Humanities track)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS/ARAB 400</td>
<td>Islam and Fiction in English</td>
<td>3</td>
</tr>
<tr>
<td>ETHS/ARAB 510</td>
<td>History of Arabic Literature I: Classical Arabic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 511</td>
<td>History of Arabic Literature II: Modern Arabic Literature</td>
<td>3</td>
</tr>
<tr>
<td>RRS 224</td>
<td>Arab-American History, Community, and Activism</td>
<td>3</td>
</tr>
<tr>
<td>RRS 230</td>
<td>Muslims in America: Communities and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>RRS 240</td>
<td>All Power to the People: Comparative Freedom Movements of the &quot;Sixties&quot;</td>
<td>3</td>
</tr>
<tr>
<td>RRS 305</td>
<td>Arab American Art and Artists of the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>RRS 312</td>
<td>Arab and Arab American Literary Expressions</td>
<td>3</td>
</tr>
<tr>
<td>RRS 315</td>
<td>Arab-American Immigration, Society, Identity, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>RRS 420</td>
<td>Arab American Identity: Memory and Resistance</td>
<td>3</td>
</tr>
<tr>
<td>RRS 430</td>
<td>Arab Media Images in America: Impact on Arab Americans</td>
<td>3</td>
</tr>
<tr>
<td>RRS 450</td>
<td>Contemporary Arabic and Arab American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Section II: Mapping Arab and Muslim Communities: Comparative Ethnicities and Diasporas (Critical Race Track)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRS 110</td>
<td>Critical Thinking and the Ethnic Studies Experience</td>
<td>3</td>
</tr>
<tr>
<td>RRS 310</td>
<td>Arab Revolutions and Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>RRS 370</td>
<td>Islamophobia: Roots, Development, and Contestation of Hatred</td>
<td>3</td>
</tr>
<tr>
<td>RRS 435</td>
<td>National Security and the Racialization of Arabs and Muslims in North America</td>
<td>3</td>
</tr>
<tr>
<td>RRS 620</td>
<td>Colonialism, Imperialism and Resistance</td>
<td>3</td>
</tr>
<tr>
<td>RRS 630</td>
<td>Palestine: Ethnic Studies Perspective</td>
<td>3</td>
</tr>
<tr>
<td>RRS 655</td>
<td>Comparative Border Studies: Palestine and Mexico</td>
<td>3</td>
</tr>
</tbody>
</table>

Section III: Gender and Sexuality Studies in Global South: Arab and Muslim Communities
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RRS 260</td>
<td>Introduction to Arab and Arab American Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>RRS/WGS 566</td>
<td>Gender and Modernity in the Muslim and Arab Worlds</td>
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</tr>
<tr>
<td>WGS 555</td>
<td>Muslim Feminisms</td>
<td>3</td>
</tr>
</tbody>
</table>
**ASIAN AMERICAN STUDIES**

**College of Ethnic Studies**  
Dean: Kenneth Monteiro

**Department of Asian American Studies**  
EP 103  
Phone: (415) 338–2698  
Chair: Grace J. Yoo

**Program Scope**

The goals of the Asian American Studies Department are to:

- Provide a comprehensive offering of courses which offer all students the opportunity to study and develop greater understanding and awareness of the histories, cultures, communities, and experiences of Asian Americans.
- Integrate knowledge and skills from a variety of other disciplines into a coherent body of information and methodologies that reflect Asian American perspectives, approaches, and needs.
- Increase the general body of information within the field of Asian American Studies.
- Encourage and promote the application of skills and knowledge from Asian American Studies to the improvement of conditions within Asian American communities and the larger society.

These goals are approached through a combination of course offerings, guided research, supervised fieldwork and participation, and student/faculty involvement in Asian American community activities and issues. The department is committed to a constant evolution of its programs and perspectives so as to reflect the dynamic character of Asian American life and circumstances. Towards these ends, courses offered by the department can be used in a number of programs and to meet a variety of graduation requirements. Solid course work in the discipline will be of value to any student intending a career that involves significant contact with Asian Americans.

**Undergraduate Program**

The department offers a B.A. in Asian American Studies for students who wish to pursue a comprehensive program of study on Asian American experiences. The major is designed to provide students with a broad range of knowledge of the diverse Asian American population through disciplinary and interdisciplinary inquiries and analyses of Asian American history, literature the arts, gender and family, and communities. Under advisement, students may use two specific courses to fulfill the history and government requirements and may use an unlimited number of units in Asian American Studies courses to count towards General Education. Students majoring in Asian American Studies are encouraged to study a modern Asian language or related courses.

**Minor Program**

The department offers a minor in Asian American Studies for those who wish to pursue a coherent course of study of the Asian American experience while completing a major in other fields. The minor program is designed to provide a wide range of course selections while ensuring knowledge of a broad range of different Asian American groups. The minor is of particular value for those students whose careers may bring them into regular professional contact with Asian American groups and communities.

**General Education and SF State Studies**

The Asian American Studies Department has designed its course offerings so that students may take a broad range of Asian American Studies courses while also meeting some General Education and other baccalaureate requirements. These offerings explore all aspects of Asian America, providing students with the opportunity to obtain a solid understanding of Asian American life and communities. In addition, by using AA S courses to partially complete General Education requirements, students can earn a major or minor in Asian American Studies in conjunction with another major, all within 120 units.

**Liberal Studies**

Asian American Studies courses can be used to meet many of the requirements for a B.A. in Liberal Studies (p. 876), most especially as the basis for an emphasis in Ethnic Studies in Area III, Behavioral and Social Sciences. Students planning to seek a multiple subjects credential to teach in the elementary school grades can use additional Asian American Studies courses to meet some of the subject matter and general unit requirements. Students are encouraged to see a Liberal Studies advisor early in their enrollment.

**Teacher Preparation**

Courses in Asian American Studies provide important knowledge on Asians in America that can assist them in teaching in California. Course work in Asian American Studies also will help prepare students to meet credential subject matter requirements as described above as part of the Liberal Studies major.

**Graduate Program**

The Master of Arts in Asian American Studies is designed, through disciplinary and interdisciplinary inquiries and analyses of Asian American history, literature and art, gender and family studies, as well as community studies, to provide students with a critical knowledge of the diverse Asian American communities. Students in Asian American Studies are encouraged to study a modern Asian language other than English.

**Career Outlook**

Both baccalaureate and master’s degrees can be used to enhance work in Asian American communities; enhance career opportunities in the Pacific Rim areas; prepare for a teaching and other professional career; and prepare for doctoral studies or other professional degrees.

**Professors**

Dong, Gonzales, Hom, Jeung, Le, Pelaud, Tintiangco-Cubales, Yoo

**Associate Professors**

Dariotis, Lee, Soe, Ueunten

**Assistant Professors**

Pido, Sasaki, Sudhakar

**Major**

- Bachelor of Arts in Asian American Studies (p. 366)

**Minor**

- Minor in Asian American Studies (p. 374)
Masters
• Master of Arts in Asian American Studies (p. 374)

Bachelor of Arts in Asian American Studies

Asian American Studies (B.A.) — 39 Units
No more than nine units can be taken for CR/NC.

Introduction to Asian American Studies (6 Units)
Select one course in Category A and one in Category B 6

Category A: History/Social Sciences
AA S 210 History of Asians in the United States
AA S 211 Contemporary Asian Americans
AA S 213 Asian Americans and American Ideals and Institutions

Category B: Humanities
AA S 212 Asian Americans and Mass Media
AA S 216 Introduction to Asian American Literature
AA S 218 Asian American Culture

Ethnic Courses (15 Units)
Select five courses representing at least four different ethnic groups.

Note: Other AA S 300 level courses are acceptable upon advisement. AA S 685, AA S 688, or AA S 699 may count if the course content is ethnic-specific (a maximum of three units from AA S 685, AA S 688, or AA S 699 can count towards the Asian American Studies major’s total unit requirement of 39).

Asian American of Mixed Heritages
AA S 301 Asian Americans of Mixed Heritages 3

Cambodian American
AA S 377 Cambodians in the United States 3

Chinese American
AA S 320 Chinese in the United States 3
AA S 322 Chinese American Language and Literature 3
AA S 323 Chinese American Identities 3

Filipina/o American
AA S 350 Filipina/os in the United States 3
AA S 352 Filipina/o American Literature, Art, and Culture 3
AA S 353 Filipina/o American Identities 3

Japanese American
AA S 330 Nikkei in the United States 3
AA S 332 Japanese American Art and Literature 3
AA S 333 Japanese American Identities 3
AA S 337 Okinawan American Heritage and Culture 3

Korean American
AA S 360 Koreans in the United States 3

Vietnamese American
AA S 370 Vietnamese in the United States 3

AA S 372 Vietnamese American Literature 3
AA S 373 Vietnamese American Identities 3

Panethnic Courses (9 Units)
Select 3 courses from the following.

Note: Other AA S 500–600 level courses are acceptable upon advisement. AA S 685, AA S 688, or AA S 699 may count for this area if the course content is panethnic (a maximum of 3 units from AA S 685, AA S 688, or AA S 699 can count towards the Asian American Studies major’s total unit requirement of 39). A lower division course may also substitute for three units with approval from an advisor.

AA S 510 Asian Americans in California 3
AA S 512 Asian American Children’s/Adolescent Literature 3
AA S 514 Asian American Community Arts Workshop 3
AA S 516 Asian American Photographic Explorations 3
AA S 540 South Asians in the United States 3
AA S 541/RRS 657 South Asian Diaspora 3
AA S 570 Southeast Asians in the United States 3
AA S 581 Asian American Women 3
AA S 582 Asian American Women’s Literature and the Arts 3
AA S 584 Asian American Sexualities 3
AA S 585 Asian American Religiosities 3
AA S 587 Asian Americans and Environmental Justice 3
AA S 588 Asian American Media Workshop 3
AA S 591 Asian American Community Health Issues 3
AA S 595 Asian American Communities and Public Policy 3

Required Major Courses (9 Units)
AA S 681 Asian American Community Changes and Development 3
AA S 696 Critical Approaches to Asian American Studies 3
AA S 697 Proseminar in Asian American Studies (prerequisite: 24 upper division AA S units) 3

Complementary Studies
Bachelor of Arts students must complete 12 units of complementary studies outside of the primary prefix for the major and not cross-listed with the primary prefix for the major.

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

Students in the Asian American Studies major may also satisfy the complementary studies requirement by completing one of the following options:

• 12 units from an Asian Language Complementary Studies cluster.
• 3 units from each of these prefixes: AFRS, AIS, LTNS, and RRS (may not be from courses that are cross-listed with AA S).
• 12 units from one of these prefixes: AFRS, AIS, LTNS, or RRS (may not be from courses that are cross-listed with AA S).
• 12 units as partial completion of a minor.
• 12 units as partial completion of a certificate.
• 12 units from an Asia-related study abroad program.
• Upon advisement, a coherent group of courses complementary to the major.

With the approval of an advisor in the major, courses that fulfill the Complementary Studies requirement may be lower or upper division units, resident or transfer units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

| Social Justice (SJ)                  | LD or UD | 3     |

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 369)

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in Social Justice. This roadmap opens in a new tab. (p. 372)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Social Justice Studies

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

1. How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
2. Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
3. How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these
units before transfer; doing so will provide more flexibility in course selection after transfer.

- a course in U.S. History
- a course in U.S. & California Government
- a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in Asian American Studies Roadmap

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One from Category A: History/Social Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 210</td>
<td>History of Asians in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AA S 211</td>
<td>Contemporary Asian Americans</td>
<td></td>
</tr>
<tr>
<td>AA S 213</td>
<td>Asian Americans and American Ideals and Institutions</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One from Category B: Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 212</td>
<td>Asian Americans and Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>AA S 216</td>
<td>Introduction to Asian American Literature</td>
<td></td>
</tr>
<tr>
<td>AA S 218</td>
<td>Asian American Culture</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethnic Course (15 units total) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Panethnic Course (9 units total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 681</td>
<td>Asian American Community Changes and Development</td>
<td>3</td>
</tr>
<tr>
<td>Ethnic Course (15 units total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Panethnic Course (9 units total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
</tbody>
</table>
Complementary Studies or SF State Studies or University Elective $^3$ & 3 \\
\hline
\textbf{Seventh Semester} & 15 \\
\hline
AA S 696 & Critical Approaches to Asian American Studies & 3 \\
\hline
Ethnic Course (15 units total) $^{5,7}$ & 3 \\
Panethnic Course (9 units total) $^{6,7}$ & 3 \\
GE Area UD--D: Upper Division Social Sciences (Consider SF State Studies Course) & 3 \\
Complementary Studies or SF State Studies or University Elective $^3$ & 3 \\
\hline
\textbf{Eighth Semester} & 15 \\
\hline
AA S 697 & Proseminar in Asian American Studies & 3 \\
\hline
Ethnic Course (15 units total) $^{5,7}$ & 3 \\
SF State Studies or University Elective – Take Three $^3$ & 9 \\
\hline
\textbf{Total Units} & 120 \\

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3 \textbf{Complementary Studies}

Bachelor of Arts students must complete 12 units of complementary studies outside of the primary prefix for the major and not cross-listed with the primary prefix for the major.

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

Students in the Asian American Studies major may also satisfy the complementary studies requirement by completing one of the following options:

- 12 units from an Asian Language Complementary Studies cluster
- 3 units from each of these prefixes: AFRS, AIS, LTNS, and RRS (may not be from courses that are cross-listed with AA S).
- 12 units from one of these prefixes: AFRS, AIS, LTNS, or RRS (may not be from courses that are cross-listed with AA S).
- 12 units as partial completion of a minor.
- 12 units as partial completion of a certificate.
- 12 units from an Asia-related study abroad program.
- Upon advisement, a coherent group of courses complementary to the major.

With the approval of an advisor in the major, courses that fulfill the Complementary Studies requirement may be lower or upper division units, resident or transfer units.

4 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Ethnic Courses (15 Units)
Select five courses representing at least four different ethnic groups.

Asian American of Mixed Heritages
AA S 301 Asian Americans of Mixed Heritages (3 units)

Cambodian American
AA S 377 Cambodians in the United States (3 units)

Chinese American
AA S 322 Chinese American Language and Literature (3 units)
AA S 323 Chinese American Identities (3 units)

Filipino American
AA S 350 Filipina/os in the United States (3 units)

Vietnamese American
AA S 392 Vietnamese American Identities (3 units)
AA S 373 Vietnamese American Identities (3 units)

Panethnic Courses (9 Units)

AA S 510 Asian Americans in California (3 units)
AA S 512 Asian American Children’s/Adolescent Literature (3 units)
AA S 514 Asian American Community Arts Workshop (3 units)
AA S 516 Asian American Photographic Explorations (3 units)
AA S 540 South Asians in the United States (3 units)

Other AA S 500-600 level courses are acceptable upon advisement. AA S 685, AA S 688, or AA S 699 may count for this area if the course content is panethnic (a maximum of three units from AA S 685, AA S 688, or AA S 699 can count towards the Asian American Studies major’s total unit requirement of 39). A lower division course may also substitute for three units with approval from an advisor.
Bachelor of Arts in Asian American Studies – SJS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. All lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Select One:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 210</td>
<td>History of Asians in the United States¹</td>
<td>3</td>
</tr>
<tr>
<td>AA S 211</td>
<td>Contemporary Asian Americans</td>
<td></td>
</tr>
<tr>
<td>AA S 213</td>
<td>Asian Americans and American Ideals and Institutions</td>
<td></td>
</tr>
<tr>
<td><strong>Select One:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 212</td>
<td>Asian Americans and Mass Media</td>
<td>4</td>
</tr>
<tr>
<td>AA S 216</td>
<td>Introduction to Asian American Literature</td>
<td></td>
</tr>
<tr>
<td>AA S 218</td>
<td>Asian American Culture</td>
<td></td>
</tr>
<tr>
<td>AA S 214</td>
<td>Second Year Written Composition: Asian American Studies</td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 591</td>
<td>Asian American Community Health Issues²</td>
<td>3</td>
</tr>
<tr>
<td>Any AA S 300 level course (p. )³</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 210</td>
<td>History of Asians in the United States¹</td>
<td>3</td>
</tr>
<tr>
<td>or AA S 213</td>
<td>or Asian Americans and American Ideals and Institutions</td>
<td></td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Any AA S 300 level course - Take Two (p. )³</td>
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<td>6</td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA S 210</td>
<td>History of Asians in the United States¹</td>
<td>3</td>
</tr>
<tr>
<td>or AA S 213</td>
<td>or Asian Americans and American Ideals and Institutions</td>
<td></td>
</tr>
<tr>
<td>AA S 681</td>
<td>Asian American Community Changes and Development</td>
<td>3</td>
</tr>
<tr>
<td>AA S 696</td>
<td>Critical Approaches to Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities – also fulfills Major panethnic requirement – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Any AA S 500-level course (p. )⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>AA S 697</td>
<td>Proseminar in Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>Any AA S 300-level course – Take Two (p. )³</td>
<td></td>
<td>6</td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences – also fulfills Major ethnic-specific requirement – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>61</td>
</tr>
</tbody>
</table>
Asian American Studies Major: 39 Units

- Introduction to Asian American Studies (6 units)
- Ethnic (15 units): Select 5 courses from at least 4 different categories of specific ethnic groups.
- Panethnic (9 units)
- Additional Courses Required for the Major (9 units)

University Electives: Six or More Units

Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.

GE Area UD–C: Upper Division Arts and/or Humanities – also fulfills Major pan-ethnic requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 512</td>
<td>Asian American Children's/Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>AA S 514</td>
<td>Asian American Community Arts Workshop</td>
<td>3</td>
</tr>
<tr>
<td>AA S 516</td>
<td>Asian American Photographic Explorations</td>
<td>3</td>
</tr>
<tr>
<td>AA S 540</td>
<td>South Asians in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AA S 582</td>
<td>Asian American Women's Literature and the Arts</td>
<td>3</td>
</tr>
<tr>
<td>AA S 585</td>
<td>Asian American Religiosities</td>
<td>3</td>
</tr>
<tr>
<td>AA S 588</td>
<td>Asian American Media Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

GE Area UD–D: Upper Division Social Sciences – also fulfills Major ethnic-specific requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 301</td>
<td>Asian Americans of Mixed Heritages</td>
<td>3</td>
</tr>
<tr>
<td>AA S 320</td>
<td>Chinese in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AA S 323</td>
<td>Chinese American Identities</td>
<td>3</td>
</tr>
<tr>
<td>AA S 330</td>
<td>Nikkei in the United States</td>
<td>3</td>
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<tr>
<td>AA S 333</td>
<td>Japanese American Identities</td>
<td>3</td>
</tr>
<tr>
<td>AA S 350</td>
<td>Filipina/os in the United States</td>
<td>3</td>
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<tr>
<td>AA S 353</td>
<td>Filipina/o American Identities</td>
<td>3</td>
</tr>
<tr>
<td>AA S 360</td>
<td>Koreans in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AA S 370</td>
<td>Vietnamese in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AA S 373</td>
<td>Vietnamese American Identities</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Asian American Studies

A total of 24 units are required for the Asian American Studies Minor, 18 of which must be from core courses and six from electives on advisement.

Asian American Studies Minor — 24 units
Introduction to Asian American Studies (6 units)
Select one course in Category A and one in Category B

Category A: History/Social Sciences
- AA S 210 History of Asians in the United States
- AA S 211 Contemporary Asian Americans
- AA S 213 Asian Americans and American Ideals and Institutions

Category B: Humanities
- AA S 212 Asian Americans and Mass Media
- AA S 216 Introduction to Asian American Literature
- AA S 218 Asian American Culture

Ethnic Courses (9 units)
Select 3 courses representing 3 different ethnic groups.
Note: Other AA S 300 level courses are acceptable upon advisement. AA S 685, AA S 688, or AA S 699 may count for this area if the course content is ethnic-specific (a maximum of three units from AA S 685, AA S 688, or AA S 699 can count towards the Asian American Studies minor's total unit requirement of 24).

Asian American of Mixed Heritages
- AA S 301 Asian Americans of Mixed Heritages

Cambodian American
- AA S 377 Cambodians in the United States

Chinese American
- AA S 320 Chinese in the United States
- AA S 322 Chinese American Language and Literature
- AA S 323 Chinese American Identities

Filipina/o American
- AA S 350 Filipina/os in the United States
- AA S 352 Filipina/o American Literature, Art, and Culture
- AA S 353 Filipina/o American Identities

Japanese American
- AA S 330 Nikkei in the United States
- AA S 332 Japanese American Art and Literature
- AA S 333 Japanese American Identities
- AA S 337 Okinawan American Heritage and Culture

Korean American
- AA S 360 Koreans in the United States

Vietnamese American
- AA S 370 Vietnamese in the United States
- AA S 372 Vietnamese American Literature
- AA S 373 Vietnamese American Identities

Panethnic Courses (6 units)
Select two courses from the following
Note: Other AA S 500–600 level courses are acceptable upon advisement. AA S 685, AA S 688, or AA S 699 may count for this area if the course content is panethnic (a maximum of three units from AA S 685, AA S 688, or AA S 699 can count towards the Asian American Studies minor's total unit requirement of 24). A lower division course may also substitute for three units with approval from an advisor.

- AA S 510 Asian Americans in California
- AA S 512 Asian American Children's/Adolescent Literature
- AA S 514 Asian American Community Arts Workshop
- AA S 516 Asian American Photographic Explorations
- AA S 540 South Asians in the United States
- AA S 541/ RRS 657 South Asian Diaspora
- AA S 570 Southeast Asians in the United States
- AA S 581 Asian American Women
- AA S 582 Asian American Women’s Literature and the Arts
- AA S 584 Asian American Sexualities
- AA S 585 Asian American Religiousities
- AA S 587 Asian Americans and Environmental Justice
- AA S 588 Asian American Media Workshop
- AA S 591 Asian American Community Health Issues
- AA S 595 Asian American Communities and Public Policy

Required Minor Courses (3 units)
Select one of the following:

- AA S 681 Asian American Community Changes and Development
- AA S 696 Critical Approaches to Asian American Studies
- AA S 697 Proseminar in Asian American Studies
  (prerequisite: 24 upper division AA S units)

Master of Arts in Asian American Studies

Admission to Program
Applicants must meet the general requirements for graduate admission at San Francisco State.

If judged deficient in undergraduate preparation in Asian American Studies, the student is required to take additional courses to meet the minimum requirements and should consult with a program advisor.

General Information
The program consists of 30 units in five modules. No more than six units are allowed in Directed Reading or Special Study or a combination of both. A student must perform satisfactorily in the first year of graduate study by maintaining a minimum grade of B in all courses taken toward the degree or be subject to dismissal. CR/NC units are not acceptable towards the degree. A graduate student in good standing must maintain a B (3.0) GPA throughout the course of study.
Written English Proficiency Requirement

Level One
Students must demonstrate proficiency in written English adequate for graduate study prior to admission by submitting a writing sample and Personal Statement with their application. Students deemed not meeting the Level One requirement may be admitted conditionally, but will be required to improve their writing skills by completing AA S 697 and/or ETHS 300GW. All entering graduate students will be further required to confirm their Level One written English proficiency by passing core seminars taken in the first year with a grade of B− or better.

Level Two
Ability to do scholarly writing in AAS shall be demonstrated by means of Level Two assessment of the Master’s Thesis or written portions of other types of Culminating Experience project at the time of submission and as a condition of approval of the Culminating Experience project.

Program

Theory and Research Methods in Asian American Studies
Intensive training in research methodologies as well as data analysis—in both the humanities and social sciences—to develop critical and analytical skills in Asian American Studies as a discipline of inquiry.

Seminars in Asian American Studies
Thematic seminars to prepare students in disciplinary and interdisciplinary inquiries.

Asian American Community Studies
In-depth studies of pertinent issues facing the Asian American community, particularly issues of public policy and health concerns through an interdisciplinary approach.

Electives or Emphasis
Courses taken on advisement with prior approval from the graduate advisor that aim to provide flexibility for graduate students to enroll in courses (upper division and/or graduate courses offered within or outside the AA S Department) to pursue an emphasis within Asian American Studies; e.g., Asian area studies, counseling, creative writing, education, English studies, cinema, electronic or print journalism, health services, history, international business, international relations, social work, etc.

Culminating Course—Master’s Thesis or Field Study
An independent and final project, which can be either scholarly or creative/artistic under graduate faculty supervision, as evidence of abilities in both research methodologies and critical analysis or artistic creativity.

Asian American Studies (M.A.) —
Minimum 30 units

Theory and Research Methods in Asian American Studies (3–6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 697</td>
<td>Proseminar in Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AA S 710</td>
<td>Critical Approaches to Asian American Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Seminars in Asian American Studies (9–12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 800</td>
<td>Theory and History in Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AA S 810</td>
<td>Seminar: Asian American Immigration</td>
<td>3</td>
</tr>
</tbody>
</table>
ETHNIC STUDIES

College of Ethnic Studies
Dean: Kenneth P. Monteiro
Ethnic Studies and Psychology Building, Room 121
Phone: (415) 338–1694

Associate Dean: Amy Sueyoshi
Graduate Coordinator: Katynka Martinez

Program Scope
The Master of Arts in Ethnic Studies increases students’ knowledge and understanding of the experiences of people of color. The program provides training in techniques for the analysis of historical and contemporary social issues related to these experiences, and the curriculum develops students’ capacity to structurally assess, plan, and evaluate social policies aimed at the resolution of these issues. Although the focus remains primarily on the condition of Asian Americans, African Americans, Latinos, and American Indians, the program is increasingly concerned with mixed race studies, sexuality studies, diaspora studies, postcolonialism, theories of racial formation, the experiences of other communities of color, and theory/practice of resistance and social movements. The Master of Arts in Ethnic Studies is collectively administered by the Chairs’ Council of the College of Ethnic Studies.

The Master of Arts in Ethnic Studies is designed to prepare individuals for advanced graduate work leading to the doctorate or professional roles in teaching, research, and administration within both the public and private sectors. The theoretical and conceptual tools of several disciplines are critically utilized and analyzed. The program applies cutting-edge analyses, such as cultural studies, postcolonial, feminist, and queer perspectives, to instruction, research, and community involvement. Both scholarly and activist engagements with the surrounding San Francisco Bay Area communities of color are encouraged and expected.

Career Outlook
The Master of Arts in Ethnic Studies is designed to be a versatile degree—one that is inclusive rather than exclusive of employment opportunities. These possibilities range from ethnic-oriented teaching, community research, multicultural resource development, to practical application in the business and technical fields. Program graduates are also eligible to apply for teaching positions at the California community colleges in ethnic studies and related fields.

Graduates with this increasingly sought after expertise have begun establishing an impressive employment history. Approximately 25 percent of graduates go directly into teaching at community colleges or four-year institutions. An additional 25 percent enter various professional fields, including K-12 teaching, youth-related social programs, and community advocacy research.

Approximately 50 percent of the graduates proceed on to doctoral studies in a wide range of subject areas, including ethnic studies, anthropology, sociology, American studies, health education, multicultural education, communication studies, and African American studies. Although the graduate program only has been in existence since 1988, alumni of the M.A. in Ethnic Studies have gone on to Ph.D. programs at a broad array of prestigious institutions. These include various University of California campuses, Temple University, Stanford, Yale, Purdue, the University of Michigan, the University of Massachusetts, the University of Hawaii, and Harvard University.

Professors
Almaguer, Barker, Carrillo, Chew, Cordova, Dong, Esquibel, Gonzales, Hom, Jeung, Jolivette, Murguia, Pelaud, Richards, Sueyoshi, Tintiangco-Cubales, Tsuruta, Yoo

Associate Professors
Abdulhadi, Akom, Bakrania, Collins, Dariotis, Duncan-Andrade, Ferreira, Fischer, Ginwright, Le, Lee, Martinez, McDougal, Nelson, Reyes, Soe, Ueunten

Assistant Professors
Flannery, Guzman-Garcia, Perea, Pido, SASaki, Sudhakar, Wright

Masters
• Master of Arts in Ethnic Studies (p. 377)

Certificates
• Certificate in Ethnic Studies (p. 376)

Certificate in Ethnic Studies
The Certificate in Ethnic Studies provides post-baccalaureate training on inequality, activism, and self-determination relevant to communities of color and indigenous peoples to empower professionals in social services, urban planning, public health, education, law enforcement, and related fields to better serve racially marginalized populations.

Admission Requirements and Application Process
All applicants must submit the following to the College of Ethnic Studies at http://ethnicstudies.sfsu.edu/
• One letter of recommendation
• Two-page personal statement which outlines the applicants’ interests in ethnic studies
• Transcript (official transcripts from all previous colleges attended; unofficial transcript from current program)
• Resume or curriculum vitae

Matriculated graduate students may apply to the certificate program by sending the above application materials directly to the College of Ethnic Studies at http://ethnicstudies.sfsu.edu/. Students accepted to the certificate program should consult with their advisor immediately to find out how best to sequence their coursework to satisfy both home department requirements and certificate requirements.

Applicants who are not currently matriculated in any SF State graduate degree must apply (via graduate admissions) and be admitted to the University and to the graduate certificate program. Acceptance into the program is with approval of the certificate program coordinator and consent of the admissions committee following review of the application materials listed above. Individuals interested in admission to the certificate program need not have completed undergraduate degree programs in ethnic studies or a related field.
Admission to the certificate program does not mean automatic admission to any other M.A. program at SF State. Certificate program students must still apply to their desired M.A. program if they seek to earn an additional M.A. while they are in the certificate program. Some units from the certificate may be transferable to SF State M.A. programs at the discretion of the graduate coordinator of the M.A. program.

Out-of-state and international students are welcome to apply to the program. For applicants whose native language is not English: a recent internet-based TOEFL (IBT) score of 95, with an essay rating of 24. Applicants who do not meet the minimum TOEFL requirement will NOT be admitted; there is NO conditional admission. A TOEFL score of 95 is considered to be very minimal; applicants who demonstrate stronger English proficiency with a higher TOEFL score (and higher essay rating) will have a better chance of being admitted.

All course work used to satisfy the requirements for the certificate must be completed with a minimum grade point average of 3.0, and only courses completed with a grade of B- or better may be included to meet graduate certificate requirements. While taking courses for the graduate certificate, students will have demonstrated appropriate writing proficiency through written assignments in designated courses by the achieving the minimum GPA to complete the certificate.

Ethnic Studies Certificate — 12 units

Program

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 710</td>
<td>Theories and Issues in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 750</td>
<td>Ethnic Studies Community Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Select two from the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Any one course from AAS that is upper division or graduate level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any one course from AFRS that is upper division or graduate level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any one course from AIS that is upper division or graduate level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any one course from LTNS that is upper division or graduate level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any one course from ETHS that is upper division or graduate level</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Master of Arts in Ethnic Studies

Admission to the Program

Applicants must meet the general University requirements, along with the College of Ethnic Studies requirements:

- Possess a bachelor’s degree from an accredited institution in a field related to the program as determined by the Graduate Admissions Committee.
- Possess a grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester (90 quarter) units attempted.
- Must have completed a minimum of 12 semester (16 quarter) units in ethnic-related course work or have comparable experience.
- Must have completed a basic course in statistics.

The graduate admission application to SF State is a two-part process. You must submit Part One and Part Two of your graduate admission application simultaneously by the deadline to be considered for admission.

1. Submit the application to the Division of Graduate Studies via http://www.csumentor.edu/AdmissionApp/grad_apply.asp

2. Submit the following information to the graduate coordinator of the College of Ethnic Studies (on behalf of the College of Ethnic Studies Graduate Admissions Committee):

- College transcripts
- The Master of Arts in Ethnic Studies application (online form at http://ethnicstudies.sfsu.edu/) that includes a statement of purpose outlining background experiences and possible community involvement, career objectives, rationale for studying ethnic studies, how your undergraduate degree relates to the M.A. in Ethnic Studies, and a biographical statement
- Two letters of recommendation from individuals having direct knowledge of the applicant's scholastic ability and commitment to the field of Ethnic Studies
- An 8-15 page writing sample (such as a research paper) that best reflects the applicant's ability to do research in proposed areas of graduate study
- A current vita

Applications are accepted for fall semester admissions only. The application deadline is February 1st.

Written English Proficiency Requirement

Level One

Level One written English proficiency must be met through satisfactorily meeting the writing requirements in ETHS 710.

Level Two

Students must indicate a method of demonstrating their further competency in English at the time of filing the Advancement to Candidacy. The latter assessment of competence is evidenced by the writing of a field study or a master’s thesis.

Advancement to Candidacy

To file for the Advancement to Candidacy, students must have completed at least 18 units toward the degree, but no later than the semester prior to beginning the Culminating Experience. The ATC requires a grade point average of 3.0 or better. Before filing the ATC, students must demonstrate proficiency in written English and complete any other program pre-candidacy requirements. The proposed course of study when approved by the dean of Graduate Studies means the student has been advanced to candidacy.

Ethnic Studies (M.A.) — Minimum 30 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 710</td>
<td>Theories and Issues in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>AA S 800</td>
<td>Theory and History in Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 705</td>
<td>Seminar in Africana Studies</td>
<td>3</td>
</tr>
<tr>
<td>AIS 701</td>
<td>Seminar in American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 707</td>
<td>Seminar in Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 720</td>
<td>Research Methods in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 750</td>
<td>Ethnic Studies Community Practicum</td>
<td>3</td>
</tr>
<tr>
<td>or ETHS 885</td>
<td>Graduate Projects in the Teaching of Ethnic Studies</td>
<td></td>
</tr>
<tr>
<td>ETHS 820</td>
<td>Advanced Research Seminar in Ethnic Studies (or Area of Emphasis Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience (3 units)

Select one on advisement:
ETHS 895  Field Study  3
or ETHS 898  Master's Thesis

1 Area Emphasis: Students are required to focus on an area of
emphasis in Africana Studies, American Indian Studies, Asian
American Studies, or Latina/Latino Studies. In addition, the program
offers students the opportunity to study Arab Muslim ethnicities and
diaspora, and race and resistance studies employing comparative
methodology. Courses selected to fulfill the emphasis will provide
a student with the subject matter foundation to complete the
culminating research project field study or thesis. Upon advisement,
upper division/graduate course work in the College of Ethnic Studies
and other departments on campus may be used.
LATINA/LATINO STUDIES

College of Ethnic Studies
Dean: Kenneth P. Monteiro

Department of Latina/Latino Studies
Ethnic Studies and Psychology Building, Room 103
Phone: (415) 338–6160
E-mail: latinos@sfsu.edu
Chair: G. Alejandro Murguía

Program Scope
Latina/Latino Studies is a unique liberal arts B.A. degree program with an emphasis on equity, social justice, and community empowerment. The program offers an opportunity to study within a multidisciplinary framework of knowledge to develop critical thinking skills, analytical and writing skills, and an area of expertise centered on Latinos in California and the United States. The program is designed to develop knowledge, skills, and consciousness that empower students to function as effective leaders in an increasingly complex, diverse, and global society. The major prepares students for graduate and professional schools for a wide range of public and private sector employment, and for a lifetime of community commitment and involvement.

The Latina/Latino Studies curriculum is critical, analytical, holistic, and cutting-edge. Students choose an integrated series of Major or Minor required and elective courses, as well as General Education classes focused on Latinos in the United States. Theoretical frameworks address race, class, sexuality, and gender inequities historically and in the present time in an analysis of multiple marginalities, community resistance, and empowerment.

Latina/Latino Studies curriculum favors a pan-Latino and comparative approach grounded in the U.S. but sometimes following a trajectory back to Latin American countries of origin and the indigenous cultures and histories connected to Latino diasporic communities. The institutional experiences, social and national identities, cultural expressions and resistance movements of Chicano/a, Mexican, Central and South American, and Caribbean-American communities in the U.S. are centrally addressed. The program emphasis is on gender, transnational identities, global economies, social movements, and literatures of resistance across the curriculum.

The Latina/Latino Studies curriculum is grounded in our local communities. Our programs stress commitment to community service, to civic engagement, social justice, and equity. We stress the importance of critical, socially responsible scholarship and link our classrooms to local communities and their empowerment through our own Community Service Learning Program. We also have short-term international study tours to Mexico and Cuba (Cuba travel suspended until the Cuba travel ban is lifted).

Community Service Learning Internships and International Study Tour
Supervised local community service learning internships and international study tours offer unique learning opportunities for students that enrich and expand their academic experience. Students may earn up to six units in each of these programs toward the Latina/Latino Studies Major or Minor. Students participate in organized group fundraising activities to support their travel. Permission of the supervising faculty is required to travel. Students report back to the campus community the results of the study tours.

The department requires that students complete at least one 3 unit, thirty-five-hour local community service learning internship for the Latina/Latino Studies major and the minor. Internships are available every semester. Students choose internships from a wide variety of community-based organizations and government agencies, research and policy organizations, and schools. Students must concurrently enroll in a 3 unit online reflection component, LTNS 694. The community service learning internships are designed to enrich the academic experience and to prepare students for future careers as well as to establish empowering mutually beneficial contacts within the Latino communities of the greater Bay Area. It is a goal of the CSL Program to instill in our students a life-long commitment to community service and civic engagement.

Students interested in joining the International Study Tour to Cuba must first successfully complete LTNS 692. The Cuba study tour is designed to provide students with opportunities to interact with local people and public officials and to learn about culture, social institutions and community organizations in Cuba.

The Mexico Study-Tour
The Mexico Study-Tour travels in late May and early June, leaving the Monday following graduation. The intensive twelve-day trip to Mexico DF and Morelos is faculty supervised. Students meet with activists from community-based organizations and schools to learn about grassroots political and social change. Students planning to travel to Mexico must first successfully complete LTNS 670, covering Mexican history and politics and Mexico’s unique relationship to the United States. This course is offered every spring semester.

Clínica Martin Baró
Clínica Martin Baró is a community clinic providing health and medical services in San Francisco’s Mission District. The Clínica was established by faculty, students, and licensed medical personnel from Latina/Latino Studies at San Francisco State University and from the Medical School at the University of California, San Francisco. Clínica Martin Baró offers service learning internships to students considering careers in the health and medical fields. Students must first successfully complete or concurrently enroll in LTNS 210.

Extra Curricular Activities
Latina/Latino Studies fosters mentoring relationships with students. A range of support services is offered, including educational planning, advising, academic skills development, professional and graduate school and scholarship application assistance and career development. Cipactli, a journal of creative works by students is published annually. Students are encouraged to become members of the academic Association of Latina/Latino Studies Major and Minor Students (ARMMES).

General Education/American Institutions
General Education Lower Division Social Sciences U.S. and California Government (Area D3), U.S. History (Area D2), and American Institutions courses offered by the department (must earn a grade of C- or better to satisfy the requirement):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals</td>
</tr>
<tr>
<td>LTNS 278</td>
<td>History of Latinos in the U.S.</td>
</tr>
</tbody>
</table>

American Institutions: U.S. Government and CA State & Local Government

Latina/Latino Studies (B.A.) – 39 Units

Core Courses (12 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 215</td>
<td>Introduction to Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 410</td>
<td>Seminar on Gender and Latinas/os</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 680</td>
<td>Latina/o Community Organizing</td>
<td>3</td>
</tr>
</tbody>
</table>

Arts and Humanities (3 Units)

Selected on advisement from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 222</td>
<td>Latina/o Art History</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 225</td>
<td>Survey of Latina/o Visual Images</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 230</td>
<td>Introduction to Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 270</td>
<td>Latina/o Arts and Humanities</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 286</td>
<td>Policy Making and Latinas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 305</td>
<td>Latina/o Studies Creative Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/CINE 409</td>
<td>Latina/o Cinema</td>
<td></td>
</tr>
<tr>
<td>LTNS 425</td>
<td>Popular and Traditional Music of the Latina(o) Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 440</td>
<td>Caribbean Cultures and Spirituality</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 455</td>
<td>Resistance Literature of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 475</td>
<td>Aztec Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 490</td>
<td>Latina/o Teatro Workshop</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HUM 520</td>
<td>North and South American Cultural Expression</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 530</td>
<td>Latina/o and the Media</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/JOUR 536</td>
<td>Latina/o Journalism</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 560</td>
<td>Contemporary Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 679</td>
<td>Central American Literature: Roots to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>

History (3 Units)

Selected on advisement from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 265</td>
<td>Topics in Latina/o History</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HIST 278</td>
<td>History of Latinos in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 315</td>
<td>Latina/o in California (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 460</td>
<td>Central Americans of the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 465</td>
<td>Mexican-Americans: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 467</td>
<td>Caribbeans in the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/ANTH/HIST 501</td>
<td>Latin America: The National Period</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 533/HIST 535/WGS 535</td>
<td>History of Women in Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>

Behavioral and Social Sciences (6 Units)

Selected on advisement from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 205</td>
<td>Cyber Raza: Culture and Community On-line (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 210</td>
<td>Latina/Latino Health Care Perspectives (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 211</td>
<td>Latina/o Families Narrative</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals (CSL)</td>
<td>3</td>
</tr>
</tbody>
</table>
LTNS 280 Transculturation and Latina/o Communities 3
LTNS 286 Policy Making and Latinos 3
LTNS 355/ AFRS 350/AFRS 350 Black-Indians in the Americas 3
LTNS 380 Afro/Latina/o Diasporas 3
LTNS 410 Seminar on Gender and Latinas/os (CSL) 3
LTNS 415 Economic Progress of Latinos in the U.S. (CSL) 3
LTNS 430/ C J 435 Race, Crime, and Justice (CSL) 3
LTNS/WGS 445 Gendered Borders: Latinas and Globalization 3
LTNS 470 Latina/o Immigration to the U.S. (CSL) 3
LTNS/CJ 485 Latina/o Youth, Crime, and Justice (CSL) 3
LTNS 500 Latina/o Community Mental Health 3
LTNS/SOC/RSS 580 Educational Equity (CSL) 3
LTNS/SOC 640 Sociology of the Latino Experience 3
LTNS 660 Latina/o Politics (CSL) 3
LTNS 670/ PLSI 408 Mexican Politics and Society (CSL) 3
LTNS 680 Latina/o Community Organizing (CSL) 3
LTNS 685 Projects in the Teaching of Latina/o Studies 1-4
LTNS 690 Community Fieldwork in Latina/o Studies 3
LTNS 692 Cuba: Health, Education, and Culture 3
LTNS 693 Cuba: Community Service Learning (CSL) 3
LTNS 694 Community Service Learning (CSL) 1-3
LTNS 707 Seminar in Latina/o Studies 3

Electives (15 Units)
Selected on advisement.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Note: Students must complete at least one community service learning module consisting of three units of LTNS 694 and three units selected from Latina/Latino Studies courses designated (CSL). The two courses must be taken concurrently. Courses marked (CSL) offer internship opportunities.

Complementary Studies
Students completing a Bachelor of Arts in Latina/Latino Studies must complete at least twelve units in Complementary Studies with a prefix other than LTNS, and not cross-listed with LTNS. These units may be in

1. a Spanish or other Latin American Language;
2. one course from each of these prefixes: AAS, AFRS, AIS, and RRS;
3. 12 units in one of the prefixes AAS, AFRS, AIS or RRS;
4. partial completion of a minor, or partial completion of a certificate;
5. a study abroad program in Latin America; or
6. upon advisement, a coherent group of courses complementary to the major.

With the approval of an advisor in the major, courses which fulfill the Complementary Studies requirement may be lower or upper division units, resident or transfer units.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning: LD or UD and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

381
Global Perspectives (GP)  
LD or UD  3  

Social Justice (SJ)  
LD or UD  3  

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)  
This roadmap opens in a new tab. (p. 384)

Transfer Student Roadmap (2 Year)  
For students with an AA-T in Social Justice Studies. This roadmap opens in a new tab. (p. 387)

For students with an AA-T in Spanish. This roadmap opens in a new tab. (p. 389)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Social Justice Studies or Spanish  
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students  
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission. Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLERP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs  
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

382
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - a. One course in oral communication (same as CSU GE area A1)
  - b. One course in written composition (same as CSU GE area A2)
  - c. One course in critical thinking (same as CSU GE area A3)
  - d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Latina/Latino Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 265</td>
<td>Topics in Latina/o History or Latina/o Families Narrative</td>
<td>3</td>
</tr>
<tr>
<td>or LTNS 211</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 278</td>
<td>History of Latinos in the U.S. or History of Latinos in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 278</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 215</td>
<td>Introduction to Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 230</td>
<td>Introduction to Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Four</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 410</td>
<td>Seminar on Gender and Latinas/ os</td>
<td>3</td>
</tr>
<tr>
<td>Major Arts and Humanities Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Elective (15 Units Total) – Selected on Advisement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>Major History Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (15 Units Total) – Selected on Advisement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 680</td>
<td>Latina/o Community Organizing</td>
<td>3</td>
</tr>
<tr>
<td>Major Behavioral and Social Science Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

---

1. Topics in Latina/o History or Latina/o Families Narrative
2. GE Area A: Written English Communication (A2)
3. GE Area B: Physical Science (B1) and Laboratory Science (B3)
4. Complementary Studies or SF State Studies or University Elective
5. Writing in Ethnic Studies - GWAR
6. Oral History Methods: Theory and Practice
7. Latina/o Community Organizing
8. Major Behavioral and Social Science Course
### Major Elective (15 Units Total) – Selected on Advisement – Complete the Service Learning Module Here

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Elective (15 Units Total) – Selected on Advisement – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>Major Behavioral and Social Science Course 8</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units** 120-122

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1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies**
   Students completing a Bachelor of Arts in Latin/Latino Studies must complete at least twelve units in Complementary Studies with a prefix other than LTNS, and not cross-listed with LTNS. These units may be in
   - a Spanish or other Latin American Language;
   - one course from each of these prefixes: AAS, AFRS, AIS, and RRS;
   - 12 units in one of the prefixes AAS, AFRS, AIS or RRS;
   - partial completion of a minor, or partial completion of a certificate;
   - a study abroad program in Latin America; or
   - upon advisement, a coherent group of courses complementary to the major.
   With the approval of an advisor in the major, courses which fulfill the Complementary Studies requirement may be lower or upper division units, resident or transfer units.
   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
5. **Major Arts and Humanities**
   - LTNS 225 Latina/o Art History (3 units)
   - LTNS 225 Survey of Latina/o Visual Images (3 units)
   - LTNS 230 Introduction to Latina/o Literature (3 units)
   - LTNS 270 Latina/o Arts and Humanities (3 units)
   - LTNS 286 Policy Making and Latinos (3 units)
   - LTNS 305 Latina/o Studies Creative Writing Workshop (3 units)
   - LTNS 409 Latina/o Cinema (3 units)
   - LTNS 425 Popular and Traditional Music of the Latina(o) Diaspora (3 units)
   - LTNS 440 Caribbean Cultures and Spirituality (3 units)
   - LTNS 455 Resistance Literature of the Americas (3 units)
   - LTNS 475 Aztec Philosophy (3 units)
   - LTNS 490 Latina/o Teatro Workshop (3 units)
   - LTNS 520 North and South American Cultural Expression (3 units)
   - LTNS 530 Latina/os and the Media (3 units)
   - LTNS 536 Latina/o Journalism (3 units)
   - LTNS 560 Contemporary Latina/o Literature (3 units)
   - LTNS 679 Central American Literature: Roots to the Present (3 units)
6. **Major History**
   - LTNS 265 Topics in Latina/o History (3 units)
   - LTNS 278 History of Latinos in the U.S. (3 units)
   - LTNS 315 Latina/os in California (3 units)
   - LTNS 435 Oral History Methods: Theory and Practice (3 units)
   - LTNS 450 Indigenismo: Indigenous Cultures of the Americas (3 units)
   - LTNS 460 Central Americans of the U.S.: History and Heritage (3 units)
   - LTNS 465 Mexican-Americans: History and Heritage (3 units)
   - LTNS 467 Caribbeanans in the U.S.: History and Heritage (3 units)
   - LTNS 501 Latin America: The National Period (3 units)
   - LTNS 533 History of Women in Latin America (3 units)
LTNS 680 serves as the culminating experience for the major.

Major Behavioral and Social Science (6 units)
LTNS 205 Cyber Raza: Culture and Community On-line (3 units)
LTNS 210 Latina/Latino Health Care Perspectives (3 units)
LTNS 211 Latina/o Families Narrative (3 units)
LTNS 276 Latina/o, U.S. Government, and Constitutional Ideals (3 units)
LTNS 280 Transculturation and Latina/o Communities (3 units)
LTNS 286 Policy Making and Latinos (3 units)
LTNS 355 Black-Indians in the Americas (3 units)
LTNS 380 Afro/Latina/o Diasporas (3 units)
LTNS 410 Seminar on Gender and Latinas/os (3 units)
LTNS 415 Economic Progress of Latinos in the U.S. (3 units)
LTNS 430 Race, Crime, and Justice (3 units)
LTNS 455 Resistance Literature of the Americas (3 units)
LTNS 470 Latina/o Immigration to the U.S. (3 units)
LTNS 485 Latina/o Youth, Crime, and Justice (3 units)
LTNS 500 Latina/o Community Mental Health (3 units)
LTNS 580 Educational Equity (3 units)
LTNS 640 Sociology of the Latino Experience (3 units)
LTNS 660 Latina/o Politics (3 units)
LTNS 670 Mexican Politics and Society (3 units)
LTNS 680 Latina/o Community Organizing (3 units)
LTNS 685 Projects in the Teaching of Latina/o Studies (1-4 units)
LTNS 690 Community Fieldwork in Latina/o Studies (3 units)
LTNS 692 Cuba: Health, Education, and Culture (3 units)
LTNS 693 Cuba: Community Service Learning (3 units)
LTNS 694 Community Service Learning (1-3 units)
LTNS 707 Seminar in Latina/o Studies (3 units)
**Bachelor of Arts in Latina/Latino Studies – SJS Associate Degree for Transfer Roadmap**

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. All lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence for you. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 215</td>
<td>Introduction to Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HIST 278</td>
<td>History of Latinos in the U.S.</td>
<td>3</td>
</tr>
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<td>Major Behavior and Social Science Emphasis – See List</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>Major Behavior and Social Science Emphasis – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major History Emphasis – See List</td>
<td>or University Elective if LTNS/HIST 278 is already satisfied</td>
<td>3</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 410</td>
<td>Seminar on Gender and Latinas/os</td>
<td>3</td>
</tr>
<tr>
<td>Major Arts and Humanities Emphasis – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – On Advisement – Take Two ¹</td>
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<td>6</td>
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<tr>
<td>University Elective</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 680</td>
<td>Latina/o Community Organizing</td>
<td>3</td>
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<tr>
<td>Major Elective – On Advisement – Take Three</td>
<td></td>
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<td><strong>Units</strong></td>
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<td><strong>Total Units</strong></td>
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<td>60</td>
</tr>
</tbody>
</table>

¹ See Bulletin for current list of all LTNS courses.
² LTNS 450 satisfies UD-C
³ LTNS 460 satisfies UD-D

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 6–9 Units**

- ENG 214 or equivalent A4 course if not completed prior to transfer (0–3 units)
- American Institutions: US History, US Government, CA State and Local Government requirements. If not completed before transfer, recommended courses also satisfy specific major requirements. See grid above.
- University Graduation Writing Assessment Requirement/GWAR (3 units): ETHS 300GW
- Upper division GE: Take 3 units to satisfy UD-B. Courses approved for UD (C) and UD (D) also satisfy major requirements. See lists below.
Students entering the major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements. Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Latina/Latino Studies Major: 39 Units**

- Core (12 units)
- Arts and Humanities (3 units): Select courses in consultation with department advisor. See list below.
- History (3 units): Select courses in consultation with department advisor. See list below.
- Behavioral and Social Sciences (6 units): Select courses in consultation with department advisor. See list below.
- Electives (15 units)

**University Electives: Six or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and in the major.

**Major Behavior and Social Science Emphasis (all courses satisfy UD-D)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 355</td>
<td>Black-Indians in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 380</td>
<td>Afro/Latina/o Diasporas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 430</td>
<td>Race, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 470</td>
<td>Latina/o Immigration to the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 485</td>
<td>Latina/o Youth, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 580</td>
<td>Educational Equity</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 660</td>
<td>Latina/o Politics</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 670</td>
<td>Mexican Politics and Society</td>
<td>3</td>
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</table>

**Major History Emphasis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 315</td>
<td>Latina/os in California</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 460</td>
<td>Central Americans of the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 465</td>
<td>Mexican-Americans: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 467</td>
<td>Caribbean in the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 501</td>
<td>Latin America: The National Period</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 533</td>
<td>History of Women in Latin America</td>
<td>3</td>
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**Major Arts and Humanities Emphasis (all courses satisfy UD-C)**

<table>
<thead>
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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>LTNS 305</td>
<td>Latina/o Studies Creative Writing Workshop</td>
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<td>LTNS 409</td>
<td>Latina/o Cinema</td>
<td>3</td>
</tr>
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<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 455</td>
<td>Resistance Literature of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 475</td>
<td>Aztec Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 530</td>
<td>Latina/os and the Media</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 560</td>
<td>Contemporary Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 679</td>
<td>Central American Literature: Roots to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>
# Bachelor of Arts in Latina/Latino Studies – SPAN Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Spanish. Up to three units in the major (Electives) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 215</td>
<td>Introduction to Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 278</td>
<td>History of Latinos in the U.S.</td>
<td>3</td>
</tr>
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<td>Major Behavior and Social Science Emphasis — See List</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>Major Behavior and Social Science Emphasis — See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major History Emphasis — See List ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective</td>
<td></td>
<td></td>
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<tr>
<td><strong>Total Units</strong></td>
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<td>15</td>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTNS 410</td>
<td>Seminar on Gender and Latinas/os</td>
<td>3</td>
</tr>
<tr>
<td>Major Arts and Humanities Emphasis — See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – On Advisement – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td>University Elective</td>
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<td>3</td>
</tr>
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<td><strong>Total Units</strong></td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>LTNS 680</td>
<td>Latina/o Community Organizing</td>
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<tr>
<td>Major Elective – selected on advisement Major Elective – On Advisement – Take Two</td>
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<td>6</td>
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<tr>
<td>Major Elective – On Advisement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if three units from ADT applied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>15</td>
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</table>

¹ Take Major History Emphasis if LTNS 278 not completed in first semester.
² LTNS 450 satisfies UD-C
³ LTNS 460 satisfies UD-D

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, CA State and Local Government requirements. If not completed before transfer, recommended courses also satisfy specific major requirements. See notes.
• University Graduation Writing Assessment Requirement/GWAR (3 units): ETHS 300GW
• Upper division GE: Take three units to satisfy UD-B. Recommended major courses also satisfy UD-C and UD-D. See notes.
• Students entering this major with the AA-T in Spanish are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Latina/Latino Studies Major: 36–39 Units**
Consult with a department advisor about applying up to three transfer units to the major.

• Core (12 units)
• Arts and Humanities (3 units): Select courses in consultation with department advisor. See list below.
• History (3 units): Select courses in consultation with department advisor. See list below.
• Behavioral and Social Sciences (6 units): Select courses in consultation with department advisor. See list below.
• Electives (12–15 units): as stated above, consult with a department advisor about applying up to three transfer units to the major.

**University Electives: Six or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.

**Major Behavior and Social Science Emphasis (all courses satisfy UD-D)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 355</td>
<td>Black-Indians in the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 380</td>
<td>Afro/Latina/o Diasporas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 430</td>
<td>Race, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 470</td>
<td>Latina/o Immigration to the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 485</td>
<td>Latina/o Youth, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 580</td>
<td>Educational Equity</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 660</td>
<td>Latina/o Politics</td>
<td>3</td>
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<tr>
<td>LTNS 670</td>
<td>Mexican Politics and Society</td>
<td>3</td>
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**Major History Emphasis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>LTNS 315</td>
<td>Latina/os in California</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 460</td>
<td>Central Americans of the U.S.: History and Heritage</td>
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<td>LTNS 465</td>
<td>Mexican-Americans: History and Heritage</td>
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</tr>
<tr>
<td>LTNS 467</td>
<td>Caribbeanos in the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 501</td>
<td>Latin America: The National Period</td>
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<tr>
<td>LTNS 533</td>
<td>History of Women in Latin America</td>
<td>3</td>
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**Major Arts and Humanities Emphasis (all courses satisfy UD-C)**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LTNS 305</td>
<td>Latina/o Studies Creative Writing Workshop</td>
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</tr>
<tr>
<td>LTNS 409</td>
<td>Latina/o Cinema</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
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</tr>
<tr>
<td>LTNS 455</td>
<td>Resistance Literature of the Americas</td>
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<tr>
<td>LTNS 475</td>
<td>Aztec Philosophy</td>
<td>3</td>
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<td>LTNS 530</td>
<td>Latina/os and the Media</td>
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<td>LTNS 560</td>
<td>Contemporary Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 679</td>
<td>Central American Literature: Roots to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Latina/Latino Studies

A minor is available to students who have selected a different major but also want to pursue a coherent course of study in the field of Latina/Latino Studies. The minor enables students to supplement a major in a different field with course work in Latina/Latino Studies. The minor requires a set of core courses supplemented with a selection of electives chosen on advisement that complement the major they have chosen. The minor consists of 24 units of which nine are required core units, nine are distributed among three areas of emphasis, and six are elective units chosen on advisement.

**Latina/Latino Studies Minor — 24 units**

**Minor Program Requirements (9 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LTNS 215</td>
<td>Introduction to Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 410</td>
<td>Seminar on Gender and Latinas/os</td>
<td>3</td>
</tr>
<tr>
<td>or LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>LTNS 680</td>
<td>Latina/o Community Organizing</td>
<td>3</td>
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**Select one course on advisement from each area below (9 units)**

**Arts and Humanities (3 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
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<tr>
<td>LTNS 222</td>
<td>Latina/o Art History</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 225</td>
<td>Survey of Latina/o Visual Images</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 230</td>
<td>Introduction to Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 270</td>
<td>Latina/o Arts and Humanities</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 286</td>
<td>Policy Making and Latinos</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 305</td>
<td>Latina/o Studies Creative Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/CINE 409</td>
<td>Latina/o Cinema</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 425</td>
<td>Popular and Traditional Music of the Latina/o Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 440</td>
<td>Caribbean Cultures and Spirituality</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 455</td>
<td>Resistance Literature of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 475</td>
<td>Aztec Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 490</td>
<td>Latina/o Teatro Workshop</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HUM 520</td>
<td>North and South American Cultural Expression</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 530</td>
<td>Latina/o and the Media</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/JOUR 536</td>
<td>Latina/o Journalism</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 560</td>
<td>Contemporary Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 679</td>
<td>Central American Literature: Roots to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>

**History (3 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 265</td>
<td>Topics in Latina/o History</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HIST 278</td>
<td>History of Latinos in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 315</td>
<td>Latina/os in California (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 460</td>
<td>Central Americans of the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 465</td>
<td>Mexican-Americans: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 467</td>
<td>Caribbeans in the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/HIST/ ANTH 501</td>
<td>Latin America: The National Period</td>
<td>3</td>
</tr>
</tbody>
</table>

**Behavioral and Social Sciences (3 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 205</td>
<td>Cyber Raza: Culture and Community On-line (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 210</td>
<td>Latina/Latino Health Care Perspectives (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 211</td>
<td>Latina/o Families Narrative</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 276</td>
<td>Latina/o, U.S. Government, and Constitutional Ideals (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 280</td>
<td>Transculturation and Latina/o Communities</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 286</td>
<td>Policy Making and Latinos</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 355/ AFRS 350</td>
<td>Black-Indians in the Americas</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one course on advisement from each area below (9 units)**

**Community Fieldwork in Latina/o Studies (9 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS/WGS 445</td>
<td>Gendered Borders: Latinas and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 470</td>
<td>Latina/o Immigration to the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/C J 485</td>
<td>Latina/o Youth, Crime, and Justice (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 500</td>
<td>Latina/o Community Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/SOC/RRS 580</td>
<td>Educational Equity (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/SOC 640</td>
<td>Sociology of the Latino Experience</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 660</td>
<td>Latina/o Politics (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 670/ PLSI 408</td>
<td>Mexican Politics and Society (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 680</td>
<td>Latina/o Community Organizing (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 685</td>
<td>Projects in the Teaching of Latina/o Studies</td>
<td>1-4</td>
</tr>
<tr>
<td>LTNS 690</td>
<td>Community Fieldwork in Latina/o Studies</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 692</td>
<td>Cuba: Health, Education, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 693</td>
<td>Cuba: Community Service Learning (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 694</td>
<td>Community Service Learning (CSL)</td>
<td>1-3</td>
</tr>
<tr>
<td>LTNS 707</td>
<td>Seminar in Latina/o Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (6 units)**

Selected on advisement.

**Note:** Students must complete at least one community service learning module as part of the Latina/Latino Studies Minor. Courses marked (CSL) offer internship opportunities.
RACE AND RESISTANCE STUDIES

College of Ethnic Studies
Dean: Kenneth P. Monteiro

Race and Resistance Studies Department
Ethnic Studies and Psychology Building 210
(415) 338-1645
Chair: Jason Ferreira

Program Scope
The Race and Resistance Studies minor is an interdisciplinary program that provides undergraduate students with an approach to social justice to study race as a politically produced and contested process that begins with institutions, movements, and social problems, to examine racialized communities. The curriculum examines how race, gender, and class are co-constitutive factors of identity, how different groups are racialized in relation to one another; how social justice movements cohere and fall apart; and how groups have formed their own identities. The Race and Resistance Studies minor provides students with non-traditional, multi-ethnic, and comparative perspectives on national and transnational experiences of people of color within the U.S.

Professor
Sueyoshi, Esquibel

Associate Professors
Abdulhadi, Bakrania, Ferreira

Race and Resistance Studies,
Minor — 19 - 21 units
The minor consists of 19 to 21 credits of undergraduate study.

- Only one third of the credits or no more than approximately two courses can be taken credit/no credit for the minor.
- Students must have maintained at least a 2.0 grade point average in minor courses.
- At least half of all courses towards the minor degree must be upper division at the 300 level or above.

Consistent with current University policy, courses for meeting the requirements of this minor may, as appropriate, be used simultaneously for meeting general education or credential requirements. Written declaration of the pursuit of the minor is not necessary prior to enrollment in any of its required or elective courses. Students should try to complete ETHS 100 or ETHS 110 before taking any further courses in the minor. These courses, however, may be taken concurrently. Additional courses may count towards the minor upon consultation with the Race and Resistance Studies undergraduate minor advisor.

Introductory Courses (3 units)
ETHS/RRS 100 Introduction to Ethnic Studies
or ETHS/RRS 110 Critical Thinking and the Ethnic Studies Experience

Core Courses (9 units)
Select one course from three different sections A through D below: 9

Section A: History and Politics
- RRS 240 All Power to the People: Comparative Freedom Movements of the “Sixties”
- RRS 250 Race, Ethnicity and Power in America
- RRS 350 Race, Labor, and Class
- RRS/SOC 410 Grassroots Organizing for Change in Communities of Color
- RRS 435 National Security and the Racialization of Arabs and Muslims in North America
- RRS 520 Race, Radicalism and Revolution
- RRS 600/HIST 466 History of People of Color in the U.S.

Section B: Popular Culture, Literature, and the Arts
- RRS 280 Race, Gender, and Science Fiction
- RRS 285 Race, Sports, and Society
- RRS 360 Cultural Dialogues and Ethnic Literature
- RRS 430 Arab Media Images in America: Impact on Arab Americans
- RRS/ARAB 450 Contemporary Arabic and Arab American Literature
- RRS 480 Youth Culture, Race and Resistance

Section C: Gender and Sexuality
- RRS/SXS 380 Coloring Queer: Imagining Communities
- RRS 571 Women, Class, and Race

Section D: Diasporas and Transnationalism
- RRS 370 Islamophobia: Roots, Development, and Contestation of Hatred
- RRS 420 Arab American Identity: Memory and Resistance
- RRS 630 Palestine: Ethnic Studies Perspective
- RRS 657 South Asian Diaspora
- WGS/RRS 566 Gender and Modernity in the Muslim and Arab Worlds

Community Service Learning (1 - 3 units)
Select one from below or as 1 - 3 CSL units attached to any course listed in the minor.
- AA S 591 Asian American Community Health Issues
- AFRS 694 Community Service Learning
- AIS 694 Community Service Learning
- LTNS 694 Community Service Learning

Ethnic Specific Course from AA S, AFRS, AIS, or LTNS (3 units)
Choose one course on advisement, from a different department than the one used to fulfill the CSL requirement.

Elective Courses (3 units)
Choose one from below or any course from above, including from the ethnic-specific departments or programs, not used to satisfy basic requirements.
- AFRS/PLSI 466 Black Lives Matter: Race and Social Movements
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 450/</td>
<td>AIDS and People of Color in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>RRS 460</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHS 590</td>
<td>Ethnic Studies Travel Study</td>
<td>1</td>
</tr>
<tr>
<td>ETHS 685</td>
<td>Projects in the Teaching of Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHS 697</td>
<td>Field Research or Internship in Ethnic Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>ETHS 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>ETHS/HIST 473</td>
<td>Unfree Labor in Early America</td>
<td>3</td>
</tr>
<tr>
<td>RRS/SOC 330</td>
<td>Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation</td>
<td>3</td>
</tr>
<tr>
<td>RRS/LTNS 580</td>
<td>Educational Equity</td>
<td>3</td>
</tr>
<tr>
<td>SOC 580</td>
<td>Educational Equity</td>
<td>3</td>
</tr>
<tr>
<td>RRS 625</td>
<td>Mixed Race Studies: A Comparative Focus</td>
<td>3</td>
</tr>
<tr>
<td>RRS 670/</td>
<td>Making Whites: Race-making in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 462</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DIGITAL ANIMATION

College of Extended Learning
SF State Downtown Campus
835 Market Street, 6th Floor
San Francisco, CA 94103
Phone: (415) 817-4230
Fax: (415) 817-4299
Website: https://cel.sfsu.edu/animation
Program Director: Robert Collins
Program Coordinator: Afitap Boz

Program Scope and Objectives

Computer animation is a highly collaborative field, and animators should be able to interact, both verbally and visually, with lighters, modelers, riggers, etc. in a constructive way. It is also crucial to have an understanding of both the artistic and technical aspects of 3D computer animation, to develop a spirit of inquiry, as well as develop a good work ethic and communications skills. The Digital Animation Certificate will offer students hands-on courses taught by industry experts, allowing students to work on a variety of assignments and develop projects for their portfolio, thus giving them a jump start into the field of animation.

Although the curriculum revolves around animation, we also offer classes in modeling, rigging, lighting, texturing, story, and improvisation. The focus of these classes is to help students understand the animation field as a whole while building a vocabulary that is common to all of these areas. This certificate is geared towards people who have some background in filmmaking, illustration, fine arts or animation (e.g., 2D or stop motion), and are interested in further developing their skill set or anyone who would like to become a professional 3D animator.

In the final semester, students will be enrolled in the Studio Class. This is a project-based class and most of the class time will be spent reviewing and critiquing individual work in progress. In this class, students will put to use everything they have learned in previous classes and work towards the completion of a short animated sequence. This course will guide students in creating a demonstration reel (DVD) of their course work to be used for the purposes of applying for employment in the animation industry.

Faculty

All courses in this program are taught by professionals working for animation industry and experts in the fields of filmmaking, computer graphics, and 3D animation.

Career Outlook

The Digital Animation Certificate Program offers students hands-on courses taught by industry experts, allowing students to work on a variety of assignments and develop projects for their portfolio, thus giving them a jump start into the field of animation.

Admissions to program

To be admitted to an academic certificate program, students should have completed 60 units of academic credit with a minimum GPA of 2.0 or sufficient experience to demonstrate they can perform upper division work. Students who do not have 60 units are encouraged to apply and may be admitted to a program on a conditional basis.

Writing Skills

The certificate program’s course content requires good writing skills. Certificate students who do not have a bachelor’s degree must pass a University approved Graduation Writing Assessment Requirement course (GWAR). ENG 414 is an approved GWAR course and also counts as elective units that can be applied toward the certificate.

Digital Animation Certificate – 27 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 380</td>
<td>Principles of Computer Animation</td>
<td>2</td>
</tr>
<tr>
<td>CINE 382</td>
<td>Animation Story Workshop</td>
<td>1</td>
</tr>
<tr>
<td>CINE 383</td>
<td>How to Bring a Digital Character to Life</td>
<td>1</td>
</tr>
<tr>
<td>CINE 384</td>
<td>Breaking into the Industry</td>
<td>1</td>
</tr>
<tr>
<td>CINE 432</td>
<td>Drawing for Digital Animation</td>
<td>2</td>
</tr>
<tr>
<td>CINE 531</td>
<td>Modeling/Rigging I</td>
<td>2</td>
</tr>
<tr>
<td>CINE 533</td>
<td>Modeling/Rigging II</td>
<td>2</td>
</tr>
<tr>
<td>CINE 535</td>
<td>Lighting/Texturing I</td>
<td>2</td>
</tr>
<tr>
<td>CINE 537</td>
<td>Lighting/Texturing II</td>
<td>2</td>
</tr>
<tr>
<td>CINE 538</td>
<td>Digital Animation Level I: Mechanics of Movement</td>
<td>3</td>
</tr>
<tr>
<td>CINE 539</td>
<td>Digital Animation Level II: Body Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CINE 534</td>
<td>Digital Animation Level III: Character Animation</td>
<td>3</td>
</tr>
<tr>
<td>CINE 536</td>
<td>Studio Class</td>
<td>3</td>
</tr>
</tbody>
</table>

Completion of Certificate

Graduation applications must be submitted at least four weeks before the end of the semester. Upon graduation, students receive a certificate signifying program completion. To be graduated, these requirements must be met:

1. The 27 unit coursework used to satisfy the requirements of the academic certificate must be completed with a minimum cumulative grade point average of 2.0 (C) or better.
2. At least two-thirds of the units applied toward meeting the requirements of an academic certificate program must be graded on a letter-grade basis.
3. All requirements for academic certificate programs must be completed within a seven-year time period beginning with the date of registration for the first certificate course and ending with the date the last course requirement is completed.
4. All financial obligations to the University must be cleared.
DIGITAL MEDIA PRODUCTION

College of Extended Learning
SF State Downtown Campus
835 Market Street, 6th Floor
San Francisco, CA 94103
Phone: (415) 817–4230
Fax: (415) 817–4299
Program Director: Robert Collins

Note: The Digital Media Production Certificate is under review for discontinuance. Please contact the College of Extended Learning for further information.

Program Scope and Objectives
Digital Media Production is an academic certificate of the SF State College of Extended Learning. Emphasis is on tools training in film audio and video post production. Students are not required to apply for the entire certificate in order to take Digital Media courses.

Digital Media Production Certificate
Admission Requirements
The certificate program requires completion of 24 semester units. Fifteen of these units are to be taken from a core of courses and the remaining nine may be chosen from the list of elective courses. To be admitted to the Digital Media Production Certificate program, students should have at least 60 units of academic credit with a minimum GPA of 2.0 or sufficient experience to demonstrate that they can perform upper division work. However, students who do not have 60 units are encouraged to apply and may be admitted to the program on a conditional basis.

Check with Digital Media Production staff for additional requirements.

Digital Media Production Certificate — 24 units
Core Courses (15 units)
Electives (7 units)
Final Requirement (2 units)
FILM AND MEDIA STUDIES

College of Extended Learning
SF State Downtown Center
835 Market Street, 6th Floor
San Francisco, CA 94103
Phone: (415) 817–4223
Fax: (415) 817–4299

Program Scope
The Certificate in Film and Media Studies (Online) is an online program of courses designed to provide academic training for those who are interested in advancing their educational and/or career goals in the popular and growing field of film and media studies. Courses will be taught by faculty in the Cinema Department at San Francisco State University, and on occasion by adjunct faculty (lecturers, visiting faculty, etc.) in cinema studies.

Admissions Requirements and Application Process
To be admitted to this program, students should have a high school diploma or equivalency. High School students that qualify for CLEP will be admitted conditionally. Normally, applying to the Program is not required in order to take the individual courses that make up the certificate. Hence, a student can take all the courses one by one and, should they complete them all, are then eligible to apply for the certificate. Matriculated SF State Cinema majors and minors are not eligible to apply for the Certificate.

Written English Proficiency Requirement
Academic certificate program courses require good writing skills. Students enrolled in certificate programs who do not have baccalaureate degrees from an English-speaking country are asked to demonstrate their writing ability soon after admission by doing one of the following:

1. Provide evidence of completion of SF State's ENG 214 or equivalent.
2. Internet-based TOEFL (iBT) score of 95 with an essay rating of 24.

To apply, complete the College of Extended Learning's Certificate Application Form, available at http://www.cel.sfsu.edu/register/forms.cfm

A $50 fee is charged for processing the application. An additional fee of $60 per course will be added to CEL's usual registration fees for technology-related costs.

For information about the program, upcoming schedule of classes, and registration deadlines, please visit www.cel.sfsu.edu (http://www.cel.sfsu.edu)

Film and Media Studies Certificate – 15 units

Certificate Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies (online)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 211</td>
<td>Film History I (online)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 212</td>
<td>Film History II (online)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Two upper-division online courses in Cinema Studies</td>
<td>6</td>
</tr>
</tbody>
</table>
**MUSIC/RECORDING INDUSTRY**

**College of Extended Learning**
SF State Downtown Campus
835 Market Street, 6th Floor
San Francisco, CA 94103
Phone: 415-817-4230
Fax: 415-817-4299
Web Site: https://cel.sfsu.edu/music
Program Director: Robert Collins
Program Coordinator: Joy Thompson

**Program Scope and Objectives**
The Music/Recording Industry program is designed for students who want to learn more about the music business and audio recording industry through a structured program of study. Musicians, producers, engineers, lawyers, agents, promoters, managers, and entertainment writers can all benefit from MRI courses. The program integrates technical skills in recording, business, and legal aspects, along with production and distribution elements, to provide foundations in the music business and audio engineering fields.

**Faculty**
Program faculty are selected for their expertise in the technical or business aspects of the music/recording industry and for their outstanding teaching ability.

**Career Outlook**
The Music/Recording Industry Certificate is designed both for the student who wants an overall basic education in the business of music/audio recording and for the professional who is seeking to broaden an area of expertise. Course work in the program may be applied toward the certificate or individual classes may be taken to learn or update skills. Students may choose to pursue an audio engineering or a business emphasis or apply the academic credit earned in this program towards a degree in related subject areas. Job categories include artist management, professional songwriter, record producer, audio engineer, sound designer, music publicist, music marketing, music journalist, talent producer, agent, record promotion, record distribution, studio manager, music publishing, concert production and booking, legal affairs, and tour management.

**Certificate in Music/Recording Industry (MRI)**

**Admission to Program**
To be admitted to the certificate program, students should have completed 60 units of prior academic college credit or have sufficient experience to demonstrate they can perform upper-division work. Students who do not have 60 units may be accepted on a conditional basis and are encouraged to apply. Students may enroll in up to nine units before applying to a certificate program.

**Writing Skills**
The certificate program’s course content requires good writing skills. Certificate students are asked to demonstrate their writing ability soon after admission to the certificate program to satisfy the university literacy requirement. Those who do not have the necessary writing skills are referred to a course offered regularly through the continuing education program: ENG 414.

**Music/Recording Industry, Certificate — 24 units**
The certificate program requires completion of 24 units. Nine units must be taken from a core of courses shown below, then a minimum of eleven units chosen from your chosen emphasis (Audio Engineering or Music Business), and the remaining three may be chosen from the following list of elective courses.

For complete course descriptions, contact the program director.

**Core Requirements (9 units)**
- MRI 310 Beginning Music Recording 3
- MRI 350 History of Music Industry 3
- MRI 360 Legal Aspects Music Recording Industry 3

**Emphasis (12 units)**
Choose Audio Engineering or Music Business

**Audio Engineering Emphasis**
- MRI 315 Intermediate Music Recording 3
- MRI 316 Pro Tools 101 1
- MRI 320 Music Mixing Workshop 3
- MRI 380 Field Study Music/Recording Industry (internship course) 2-3
- MRI 430 Adv Audio Prod 1 (Fantasy Studios) 3

**Music Business Emphasis**
- MRI 331 Applied Strategies: Breaking into the Music Business 3
- MRI 355 Music Industry Career Options 3
- MRI 362 Music Publishing 3
- MRI 380 Field Study Music/Recording Industry (internship course) 1-3

**Elective Courses (3 units)**
- MRI 312 Ableton Live 1
- MRI 313 EDM Production 2
- MRI 317 Reason: Digital Music Composition 2
- MRI 318 Logic Audio 101 2
- MRI 327 Role of Record Producer 2
- MRI 329 Live Concert Production 2
- MRI 330 Music Business Publicity 3
- MRI 334 Popular Music Marketing and the Media 3
- MRI 336 The Art and Business of Songwriting 2
- MRI 338 Studio Sessions Vocal Workshop 2
- MRI 340 Music Artist Management 3
- MRI 341 Music Mastering 1
- MRI 342 Hst/Aes Music Record Prod 3
- MRI 348 Independent Record Label 3
- MRI 352 Artist & Repertoire 3
- MRI 370 Producing Music Videos (Topics vary and are offered on a rotating basis.) 2
- MRI 530 Adv Audio Prod 2 (Fantasy Studio) 3
- MRI 625 Live Concert Sound 1
PARALEGAL STUDIES

College of Extended Learning
SF State Downtown Campus
835 Market Street, 6th Floor
San Francisco, CA 94103
Phone: 415-817-4223
Fax: 415-817-4299
Web Site: www.cel.sfsu.edu/paralegal/ (http://www.cel.sfsu.edu/paralegal)

Program Director: Pat Medina
Program Coordinators: Baseemah Rahman and Eduardo Cerpa

Program Scope and Objectives
Paralegal Studies is a 30 unit certificate program, providing instruction in practical legal skills and substantive law. All coursework is taught at the upper-division level by attorneys and working paralegals.

The primary goal of the program is to educate students for positions as paralegals as a means of improving the quality, accessibility, and affordability of legal services. The program started in 1975 and has graduated well over a thousand paralegals. Further information on the program's key objectives and the mission statement submitted to the American Bar Association (ABA) can be found on the paralegal program's web site (http://www.cel.sfsu.edu/paralegal).

ABA-Approved
The Paralegal Studies program is approved by the American Bar Association. This is the only ABA-approved paralegal studies program in San Francisco. The Paralegal Program began in 1975 and has continued a tradition of excellence up to the present.

California legislation defines who may call himself or herself a paralegal and sets forth education criteria for paralegals. One of the criteria is graduation from a program approved by the American Bar Association. Please refer to the section on California Legislation on Paralegals cited below.

California Legislation on Paralegals
The state of California has adopted legislation that defines the titles "paralegal" and "legal assistant" and sets educational criteria and continuing education requirements for paralegals. The San Francisco State University Paralegal Studies certificate program meets the educational requirements of the law by virtue of being offered by an accredited institution with an ABA-approved program, and consisting of more than 24 units of paralegal coursework. We also offer a series of paralegal continuing education courses to meet the continuing education standards established by the Business and Professions Code Section 6450 et. seq.

Faculty
All courses in this program are taught by attorneys and/or paralegals with practical experience in their respective fields. We currently have four program graduates on our faculty.

Career Outlook
Paralegals are employed in private and public interest law firms, corporations, banks, securities firms, government agencies, and regulatory bodies. The Bureau of Labor Statistics ranks the paralegal occupation as one of the fastest growing in the country. Recent state legislation requires that persons working as paralegals meet specified educational and continuing education requirements.

Certificate in Paralegal Studies
Admission to Program
Applicants who hold a baccalaureate degree, either from the US or another country, are automatically eligible for admission to the program. Applicants who do not have a baccalaureate degree are required to have a minimum of 60 semester or 90 quarter units of prior academic college credit with at least 30 semester (45 quarter) units of academic general education courses in four basic skills courses:

- oral communication,
- written composition,
- critical thinking, and
- mathematics or quantitative reasoning.

Additionally, applicants must have an overall GPA of 2.5 or better and all coursework must have been completed within 10 years of applying to the program.

Applicants with at least three years of legal employment and 45 semester (68 quarter) units may petition for conditional admission. Transcripts verifying these units must be accompanied by an attorney declaration attesting to their legal work experience, which must have been within five years of their application to the program.

Writing Skills
Paralegal courses require strong writing skills. Certificate students who do not have a bachelor's degree must pass a University approved Graduation Writing Assessment Requirement course (GWAR). PLS 414GW is an approved GWAR course and also counts as elective units that can be applied toward the certificate.

A certificate is awarded upon successful completion of 30 units. The 30 units required to earn the certificate consist of five required courses and five elective courses.

Each course carries three units of credit. For complete course descriptions, contact a program coordinator.

Required Courses
- Introduction to Law/Civil Procedure
- Legal Research and Writing
- Communications Skills and Legal Ethics
- Pleadings and Motions
- Investigation, Discovery, and Trial Preparation

Elective Courses: Advanced and Specialized Practical Courses
- Administrative Law
- Advanced Legal Research and Writing
- Bankruptcy
- Computer Applications
- Computer Applications II
- Contemporary Legal Issues
- Contracts
- Corporations Law
• Criminal Law
• Elder Law
• Employment Law
• Environmental Litigation
• Evidence
• Family Law
• Law Office Management
• Paralegal Experience Internship
• Patents
• Immigration Law
• Introduction to Professional Legal Writing
• Probate Procedures
• Real Estate Practice
• Trademarks & Copyrights
• Torts
• Wills, Trusts, and Estate Planning

Required courses are offered every semester.
Each elective is taught once a year or every other year.

**Intended Audience**
College graduates who are interested in a career in the legal field, international students who worked in the legal field as lawyers or paralegals in their home countries, career changers, students who are thinking about law school, and early retirees from other professions who have a general interest in the law.

**Non-certificate Students**
If students wish to explore the legal field and want to take selected individual courses in the program, they may register for those courses, with the consent of the faculty member and program director.

Also, those who already have experience in the legal field and who wish to take selected courses without applying to the program may register for courses with the permission of the individual instructor and program director.
# Pre-Health Professions

**College of Extended Learning**
Dean: Guido Krickx

**College of Science and Engineering**
Dean: Keith Bowman

**Pre-Health Professions Certificate**

**Pre-Nursing Certificate**

HH 219  
(415) 338-2410  
Website: [http://prehealth.sfsu.edu/](http://prehealth.sfsu.edu/)  
Email: hpac@sfsu.edu  
Committee Chair: Robert Ramirez  
Certificate Program Director: Rachel Small

## Program Scope

The goal of the Pre-Health Professions Certificate Program (PHPCP) and Pre-Nursing Post-Bac Certificate Program (PNPBCP) is to guide participants through the entire preparation and application process so that they will be competitive applicants to graduate health profession schools. The program is intended for students who have already earned a B.A./B.S. degree and wish to apply to allopathic medicine, osteopathic medicine, nursing, dentistry, pharmacy, physical therapy, physician assistant, or optometry schools. Students wishing to apply to other health professions schools may also be considered. The program is suited for students who need to take introductory science coursework, upper division science coursework or a combination of both in order to be competitive in the admission process for health profession schools. The Director and Co-Directors jointly write a comprehensive committee letter that may be submitted with the student’s health profession school application. Federal and/or private loans may be available to program participants.

## Admission Requirements and Application Process

Applicants must have graduated from an accredited institution of higher learning with a baccalaureate or higher degree and a GPA of 2.5 or above for their most recent 60 semester units (90 quarter units) of coursework. However, because of the limited number of students that can be accommodated by the program, applicants with higher GPAs will have an advantage in being admitted.

Applicants must apply through CSU Mentor and complete the supplementary application at [http://prehealth.sfsu.edu/content/how-to-apply](http://prehealth.sfsu.edu/content/how-to-apply). Official transcripts from all colleges and two letters of recommendation are also required. Admissions decisions are made by the PHPCP and PNPBCP and admission offers are issued by the SF State Division of Graduate Studies.

Students whose primary language is not English must earn a minimum score of 550 on the paper version of the Test of English as a Foreign Language (TOEFL) or a minimum score of 213 on the computer-based version.

## Admission Dates

<table>
<thead>
<tr>
<th>Start Semester</th>
<th>CSU Mentor Application</th>
<th>Supplemental Application &amp; Materials Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>February 1 – March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Fall</td>
<td>October 1 – May 1</td>
<td>May 1</td>
</tr>
<tr>
<td>Spring</td>
<td>August 1 – October 1</td>
<td>October 1</td>
</tr>
</tbody>
</table>

## Pre-Health Professions Certificate – 40 Units

Students will earn the certificate after completing the required Health Professions Colloquium (SCI 695) and at least 38 units taken from the courses shown in the table below. Note: A maximum of 20 units may be transferred in from courses taken at accredited undergraduate institutions prior to entering the PHPCP. Students may also take courses in the Pre-Nursing Certificate program and these units will also count toward the PHPCP certificate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I (with laboratory)</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II (with laboratory)</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 328</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 382</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 401</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 430</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 435</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 453</td>
<td>General Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 609</td>
<td>Physics in Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 612</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 615</td>
<td>Molecular Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 616</td>
<td>Cardiorespiratory Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 618</td>
<td>Biology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 619</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 623</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 627</td>
<td>Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 640</td>
<td>Cellular Neurosciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 642</td>
<td>Neural Systems Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 760</td>
<td>Cancer Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 782</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry (with laboratory)</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 234</td>
<td>Organic Chemistry I Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 336</td>
<td>Organic Chemistry II Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>H ED 221</td>
<td>Health and Social Justice - Burning Issues, Taking Action</td>
<td>3</td>
</tr>
<tr>
<td>H ED 414</td>
<td>Women's Health - Problems and Issues</td>
<td>3</td>
</tr>
<tr>
<td>H ED 810</td>
<td>Public Health and Principles of Community Organizing</td>
<td>3</td>
</tr>
</tbody>
</table>
Pre-Nursing Post-Baccalaureate Certificate – 30 Units

Students will earn the certificate after completing the required Health Professions Colloquium (SCI 695) and 28 units taken from the courses shown in the table below. Note: A maximum of 15 units may be transferred in from courses taken at accredited undergraduate institutions prior to entering the PNP.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 431</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCI 124</td>
<td>Math Concepts - Elementary Statistics</td>
<td>1</td>
</tr>
<tr>
<td>SCI 239</td>
<td>Introduction to Health Professions</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>9</td>
</tr>
<tr>
<td>BIOL 328</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Survey of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Survey of Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>DFM 253</td>
<td>Nutrition in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>11</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>General Microbiology and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>General Microbiology and Public Health Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 212</td>
<td>Principles of Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 213</td>
<td>Principles of Human Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>28</td>
</tr>
</tbody>
</table>

Supplemental Courses

The following courses are not required, but are offered as optional/supplemental courses to be taken at the students’ discretion. In some cases, students may take supplemental courses in place of required courses as appropriate and in consultation with an advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>Human Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>COMM 150</td>
<td>Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>H ED 825</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>SCI 103</td>
<td>Science Concepts - Survey of Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>SCI 110</td>
<td>Science Concepts - Human Biology</td>
<td>1</td>
</tr>
<tr>
<td>SCI 210</td>
<td>Science Concepts - General Microbiology and Public Health</td>
<td>1</td>
</tr>
<tr>
<td>SCI 235</td>
<td>Science Concepts</td>
<td>2</td>
</tr>
<tr>
<td>SCI 328</td>
<td>Science Concepts: Human Anatomy</td>
<td>1</td>
</tr>
<tr>
<td>SCI 610</td>
<td>Science Concepts - Principles of Human Physiology</td>
<td>1</td>
</tr>
</tbody>
</table>
PRE-NURSING

College of Extended Learning
Dean: Guido Krickx

College of Science and Engineering
Dean: Keith Bowman

Health Professions Advising Committee
HH 219
(415) 338-2410
Website: pre-health.sfsu.edu/nursing-post-bac/ (http://prehealth.sfsu.edu/content/nursing-post-bac)
Email: hpac@sfsu.edu
Committee Chair: Robert Ramirez
Certificate Program Director: Rachel Small

Program Scope

The goal of the Pre-Nursing Certificate Program is to guide participants through the entire preparation and application process as competitive applicants to graduate nursing schools. The Program is suited for students who need to take nursing school prerequisites for the first time or retake such courses in order to be competitive in the admission process for nursing school. Yearly cohorts of approximately 30 students will take nursing school prerequisite courses in biology, chemistry, mathematics, communication, as well as auxiliary course work in the form of discussion sections, and a Health Professions Colloquium. Optional preliminary and/or more advanced course work in biology, chemistry, mathematics, public health, nutrition and/or psychology will be available as needed. The program begins in the early summer and runs continuously for three semesters, and is supervised by a Leadership Team that includes the Program’s Director and Co-Director. The Leadership Team writes a comprehensive Committee Letter that may be submitted with the student’s nursing school application. Federal and/or private loans may be available to students with documented financial need.

Admissions Requirements and Application Process

- Applicants must have graduated from a regionally accredited institution of higher learning with a baccalaureate or higher degree and a GPA of 2.5 or above for their most recent 60 semester units (90 quarter units) of coursework. However, because of the limited number of students that can be accommodated by the Program, applicants with higher GPAs will have an advantage in being admitted.
- Applicants must apply through CSU Mentor and complete the supplementary application at http://prehealth.sfsu.edu/content/how-to-apply. Official transcripts from all colleges and two letters of recommendation are also required. Admissions decisions are made by the PHPCCP and PNPCBCP and admission offers are issued by the SF State Division of Graduate Studies.
- Students whose primary language is not English must earn a minimum score of 550 on the paper version of the Test of English as a Foreign Language (TOEFL) or a minimum score of 213 on the computer-based version.

Admission Dates

Start Semester | CSU Mentor Application Supplemental Open Application & Materials Deadline
---|---|---
Summer | February 1 – March 1 | March 1
Fall | October 1 – May 1 | May 1
Spring | August 1 – October 1 | October 1

Pre-Nursing Certificate Program – 30 Units

Students will earn the certificate after completing the required Health Professions Colloquium (SCI 695) and 28 units taken from the courses shown in the table below. Note: A maximum of 15 units may be transferred in from courses taken at accredited undergraduate institutions prior to entering the PNPCBCP.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester - Summer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 431</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCI 124</td>
<td>Math Concepts - Elementary Statistics</td>
<td>1</td>
</tr>
<tr>
<td>SCI 239</td>
<td>Introduction to Health Professions</td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Second Semester - Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Survey of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Survey of Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 328</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>DFM 253</td>
<td>Nutrition in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td><strong>Third Semester - Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 212</td>
<td>Principles of Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 213</td>
<td>Principles of Human Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>General Microbiology and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>General Microbiology and Public Health Laboratory</td>
<td>1</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td><strong>Fourth Semester - Summer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCI 695</td>
<td>Health Professions Colloquium</td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 MATH 124 is a 10-week course.

Supplemental Courses

The following courses are not required, but are offered as optional/supplemental courses to be taken at the students’ discretion. In some cases, students may take supplemental courses in place of required courses as appropriate and in consultation with an advisor.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>Human Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>H ED 825</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>SCI 103</td>
<td>Science Concepts - Survey of Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>SCI 110</td>
<td>Science Concepts - Human Biology</td>
<td>1</td>
</tr>
<tr>
<td>SCI 210</td>
<td>Science Concepts - General Microbiology and</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Public Health</td>
<td></td>
</tr>
<tr>
<td>SCI 235</td>
<td>Science Concepts</td>
<td>2</td>
</tr>
<tr>
<td>SCI 328</td>
<td>Science Concepts: Human Anatomy</td>
<td>1</td>
</tr>
<tr>
<td>SCI 610</td>
<td>Science Concepts - Principles of Human</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Physiology</td>
<td></td>
</tr>
<tr>
<td>COMM 150</td>
<td>Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
</tbody>
</table>
SCREENWRITING

College of Extended Learning
SF State Downtown Center
835 Market Street, 6th Floor
San Francisco, CA 94103
Phone: (415) 817-4223
Fax: (415) 817-4299

Program Scope
The Certificate in Screenwriting is an online program of courses designed to provide academic training for those who are interested in advancing their educational and/or career goals in the popular and growing field of screenwriting. Courses will be taught by faculty in the Cinema Department at San Francisco State University, and on occasion by adjunct faculty (lecturers, visiting faculty, etc.) in screenwriting.

Admissions Requirements and Application Process
To be admitted to this program, students should have a high school diploma or equivalency. High School students that qualify for CLEP will be admitted conditionally. Normally, applying to the Program is not required in order to take the individual courses that make up the certificate. Hence, a student can take all the courses one by one and, should they complete them all, are then eligible to apply for the certificate. Matriculated SF State Cinema majors and minors are not eligible to apply for the Certificate.

Written English Proficiency Requirement
Academic certificate program courses require good writing skills. Students enrolled in certificate programs who do not have baccalaureate degrees from an English-speaking country are asked to demonstrate their writing ability soon after admission by doing one of the following:

1. Provide evidence of completion of SF State’s ENG 214 or equivalent.
2. Internet-based TOEFL (IBT) score of 95, with an essay rating of 24.

To apply, complete the College of Extended Learning’s Certificate Application Form, available at http://www.cel.sfsu.edu/register/forms.cfm

A $50 fee is charged for processing the application. An additional fee of $50 per course will be added to CEL’s usual registration fees for technology-related costs.

For information about the program, upcoming schedule of classes, and registration deadlines, visit www.cel.sfsu.edu (http://www.cel.sfsu.edu)

Screenwriting, Certificate — 15 units

Certificate Curriculum (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies (online)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 202</td>
<td>Introduction to Filmmaking (online)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 356</td>
<td>Fundamentals of Screenwriting (online)</td>
<td>3</td>
</tr>
<tr>
<td>Two upper-division online courses in screenwriting</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
**SPANISH/ENGLISH INTERPRETATION**

**College of Extended Learning**

**Spanish/English Interpretation (Legal/Court)**

SF State Downtown Campus  
835 Market Street, 6th Floor  
San Francisco, CA 94103  
Phone: 415-817-4223  
Fax: 415-817-4299

Web Site: https://cel.sfsu.edu/interpretation  
Program Director: Eric Bishop  
Program Coordinator: Baseemah Rahman

**Program Scope**

This program is designed to develop the interpreting skills necessary for service in the courts, state agencies, and medical evaluation system of workers’ compensation. It is specifically designed to prepare participants to pass the California Court Interpreter Exam. Program faculty are state-certified interpreters.

**Faculty**

Faculty members are all adjunct instructors who are state-certified court interpreters.

**Career Outlook**

Certified Spanish/English interpreters are in heavy demand in California. Interpreter examinations are mandated for employment in courts and state agencies. Once an interpreter passes the California Court Interpreter Exam, s/he will be able to work in the state courts and freelance for state agencies, health organizations, private companies, law firms, and interpreting agencies. Many attorneys in private practice now use only certified court interpreters for depositions, personal injury, and workers’ compensation cases.

**Certificate in Spanish/English Interpretation (Legal/Court)**

**Admission to the Program**

Admission requirements are 60 semester units of prior academic college credit (B.A. preferred) and a passing score on the SF State Bilingual Entrance Exam. To register for the Bilingual Entrance exam, please visit: https://cel.sfsu.edu/interpretation/admission.

There are six core courses and one elective course. For complete course descriptions, contact the program coordinator or visit: https://cel.sfsu.edu/interpretation.

**Spanish/English Interpretation, Certificate**

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLL 400</td>
<td>Introduction to Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>MLL 401</td>
<td>Sight Translation</td>
<td>3</td>
</tr>
<tr>
<td>MLL 403</td>
<td>Consecutive Interpretation I</td>
<td>3</td>
</tr>
<tr>
<td>MLL 405</td>
<td>Consecutive Interpretation II</td>
<td>3</td>
</tr>
<tr>
<td>MLL 407</td>
<td>Simultaneous Interpretation I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLL 409</td>
<td>Simultaneous Interpretation II</td>
<td>3</td>
</tr>
</tbody>
</table>

MLL 9915 Advanced Interpreting & Oral Exam Prep  
Select one course in consultation with an advisor
CHILD AND ADOLESCENT DEVELOPMENT

College of Health and Social Sciences

Dean: Alvin Alvarez

Department of Child and Adolescent Development
SCI 394
Phone: (415) 405–3564
Fax: (415) 405–0401
Email: cad@sfsu.edu
Website: cad.sfsu.edu (http://cad.sfsu.edu)
Chair: Rene F. Dahl

CAD Metro Academy
GYM 104
Phone: (415) 405–0737
Website: metro.sfsu.edu (http://metro.sfsu.edu)
Director: Heather Daniels

CAD PATH (Promoting Achievement through Higher Education)
GYM 105
Phone: (415) 405–4342
Website: cad.sfsu.edu/path (http://cad.sfsu.edu/path)
Director: Lygia Stebbing

Marian Wright Edelman Institute for the Study of Children, Youth, & Families
HSS 257
Phone: (415) 405–3925
Website: edelman.sfsu.edu (http://edelman.sfsu.edu)
Director: David Anderson

Program Scope

The Bachelor of Arts degree in Child and Adolescent Development (CAD) is for students who are interested in studying about and working with children, adolescents, and their families. The major provides students with knowledge and theories about children and adolescents from a developmental perspective. Students then learn to apply this knowledge to programs, services, and policies for children, youth, and families that are offered in community settings and classrooms. The core courses address theories of child and adolescent development, diverse families in a globalized context, action research methods, and policy and advocacy. In addition to taking core courses, CAD majors select one out of three specialized concentrations that reflects their specific interest.

Those concentrations are:

1. Early Childhood;
2. School Age Child and Family; and
3. Youth Work and Out of School Time

The CAD department offers two special programs:

1. CAD Metro Academy (Metro)
   CAD Metro Academy was developed to support the next generation of leaders for early care and education in urban communities. Metro accepts freshmen who are designated as “Pre-CAD” and works with them for two years. Metro students receive personalized support for college success through in-class academic support and tutoring. At the core of Metro Academy is a learning community made up of two linked courses each semester, pairing a general education course and a Metro child and youth development course. After completing the Metro program, students are prepared to complete requirements of their chosen major with the necessary skills for college success. CAD Metro is part of the larger Metro Academies initiative on campus.

2. CAD Promoting Achievement through Higher Education (PATH)
PATH is part of the CAD major in the Early Childhood concentration. It facilitates completion of the BA degree in CAD for practitioners who work in the field of early care and education. Courses are offered on evenings and weekends so working professionals can take four courses each semester and graduate in two years with a baccalaureate.

The CAD department works with the Marian Wright Edelman Institute for the Study of Children, Youth, and Families. The Edelman Institute’s mission is to further educational excellence through its association with the child and adolescent development curriculum; promote collaboration among faculty; create public outreach, social advocacy, and other partnerships between SF State and the community; and to foster research and scholarly work in the areas of children, youth, and families.

The CAD major is designed to meet the educational and career needs of students with a variety of interests. Students who wish to complete a bachelor’s degree as well as a Child Development Permit to work as a licensed child care provider in a preschool or child care center will choose the Early Childhood concentration. Students who wish to teach in elementary schools will choose the School Age Child and Family concentration, which provides a subject matter preparation waiver program but a child development foundation as well. This concentration is excellent preparation for a post–baccalaureate Multiple Subject Teaching Credential program. Others who wish to work in out-of-school time programs such as after-school programs, probation, recreation, residential treatment facilities for school–age children and youth, or other community–based programs for children and youth will choose specialized study in the Youth Work and Out of School Time concentration. All concentrations prepare students for advanced study in disciplines such as law, medicine, psychology, social work, recreation, counseling, or physical therapy.

Career Outlook

The outlook for careers working with children and adolescents is positive. Surveys of employers and community agencies that offer positions working with children, adolescents, and families indicate that there is a need for professionals in those areas who have a strong foundation of knowledge and skills about child and adolescent development. Graduates who want to work with young children and their families as infant–toddler specialists, pre–school teachers, or child care providers are in high demand. There are 6,000 children in San Francisco alone on waiting lists for childcare programs. There is a need for well-educated, experienced professionals to staff and administer quality child care and education programs, particularly as the existing center–based workforce with B.A. degrees or higher starts to retire. There is also need to expand the ethnic and linguistic diversity of early care providers. B.A. degree providers/teachers are particularly needed in centers serving both infants and preschoolers, working with dual language learners, and working with children with special needs.

Even with state fiscal challenges and changes in requirements for teacher preparation, the increase in school age children in California and the significant numbers of teachers who will retire within the next few years, means there will be a need for qualified, fully prepared professionals.
to teach kindergarten through 5th grade. Students who plan to enter a post-baccalaureate multiple subject teaching credential program for elementary school teaching can complete a multiple subject matter waiver program in lieu of taking a Commission-approved subject matter examination (currently CSET). The CAD degree strengthens pre-service preparation in subject matter as well as in developmental knowledge about child and adolescents.

Professor
Dahl

Associate Professor
Park

Assistant Professors
Baroody, Platas

Lecturers
Agosta, Shea, Stebbing

Majors
• Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood (p. 407)
• Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family (p. 417)
• Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time (p. 429)

Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood

Application Filing Period
Because of high student demand, Child and Adolescent Development (CAD) was declared an impacted major in Fall 2011. Therefore, CAD admits only upper division students (minimum 60 units completed) to the major in fall and spring semesters. We encourage students who are interested in the CAD major to apply even though it is impacted. Transfer students who apply to the major must be accepted first by the University and second, by the CAD Department. The university’s application form and due dates may be found here: https://www.sfsu.edu/~admisrec/reg/reg.html

Current SF State students who wish to change their major to CAD for the fall semester should submit an application to the CAD department during the October 1 through November 30 application filing period. Students who wish to be considered for spring admission should apply between August 1–31. The department does not accept late applications for either fall or spring admissions. Again, if you are interested in the CAD major, we encourage you to apply even though it is impacted.

Please note: The following lower division courses are prerequisites for the upper division CAD courses in the Core Curriculum that are required for all CAD majors. They must be completed before students can take upper division CAD courses in the Core Curriculum. Failure to take these lower division prerequisite courses will delay progress in the major.
• CAD 210 with a grade of C or better

• CAD 260 with a grade of C or better
• ENG 214 with a grade of C- or better
• Minimum of 60 units completed (junior standing)

Community college course equivalents are accepted if grade requirements are met and the courses were formally articulated at the time the courses were taken.

Course policies for the major
• Courses in the major must be completed with a letter grade of C or better. CR/NC grading is not accepted except for the internship courses: CAD 601 and CAD 611.
• Courses taken in the core may not be counted in a concentration or vice versa.

Concentration in Early Childhood
The concentration in Early Childhood is designed for students who wish to work primarily in teaching and child care with young children (infants, toddlers, and preschoolers), and their families, in schools and public or private institutions and other agencies that serve this population. The degree fulfills the requirements for the Child Development Permit issued by the California Commission on Teacher Credentialing.

Students must complete two courses in SPED; one course at the 300 level and one course at the 600 level, as listed in the Early Childhood concentration.

Child and Adolescent Development Major (B.A.): Concentration in Early Childhood — Minimum 45 units

Core Requirements — 18 units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 210</td>
<td>Introduction to Applied Child and Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 260</td>
<td>Children, Families, and Community: An Ecological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 450</td>
<td>Family Systems</td>
<td></td>
</tr>
<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CAD 625</td>
<td>Understanding and working with Diverse Families</td>
<td>3</td>
</tr>
</tbody>
</table>

Research

Special Topics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 625</td>
<td>Children, Youth, and Public Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration in Early Childhood — 24 units

Early Childhood Foundation

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 215</td>
<td>Foundations in Early Childhood</td>
<td>3</td>
</tr>
</tbody>
</table>

Child Development in Context

Select one from each category:

Special Needs:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 330</td>
<td>Introduction to Disability</td>
<td>3</td>
</tr>
<tr>
<td>SPED 370</td>
<td>Young Children Disabled or At Risk and Their Families</td>
<td>3</td>
</tr>
</tbody>
</table>
Infant/Toddler Development:
CFS 323 Infants/Toddlers and Families 3
E ED 611 Advanced Issues in Infant-Toddler Education and Care 1

Supporting Children's Learning:
E ED 600 Advanced Issues in Child Development and Learning 3
E ED 603 Promoting Young Children's Social and Emotional Development 3
E ED 619 Children's Play: Theory and Practice 3
E ED 668 Multicultural Education and Social Justice for Young Children 3
SPED 671 Positive Behavior Support for Young Children 3
SPED 672 Inclusive Learning Environments for Young Children 3

Curriculum and Methods:
CFS 322 Early Childhood Education Curriculum (Birth to Five) 3
E ED 602 Advanced Curriculum Study in ECE 3

Observation and Assessment:
CFS 420 Assessment and Observation with Children 3
E ED 610 Classroom Assessment and Evaluation for Young Children 3

Special Issues:
Select one course from A and one from B
A. Administration/Leadership & Working with Families
   CAD 510 Adult Supervision and Leadership in Early Childhood Programs 3
   CFS 324 Administration of Infant/Toddler Programs 3
   CFS 423 Administration of Programs for Young Children 3
   E ED 604 Advanced Issues in Collaboration with Families and Communities in ECE 3
   E ED 607 Leadership and Administration in ECE 3
   SPED 675 Working with Families of Young Children with Disabilities 3

B. Curriculum Specialties
   CAD 326 Jumpstart: Developing Literacy Skills in Young Children (For Jumpstart corps members only, may count only once for credit in the major) 3
   E ED 613 Integrated Arts Curricula in ECE 3
   E ED 614 Science, Math, and Technology Curricular in ECE 3
   E ED 615 Environmental Education in ECE 3
   E ED 616 Language and Literacy in Multilingual ECE Settings 3
   MUS 601 Music for Children 3

Culminating Experience
CAD 610 Early Childhood Internship Seminar 1
CAD 611 Early Childhood Internship 2

Courses must be taken concurrently.
Additional 150 hours required prior to the start of the internship in a licensed center/program with children birth to five years. Hours must be documented and on file in the CAD office prior to the start of the internship. See CAD website for deadline dates (http://cad.sfsu.edu/internships).

Complementary Studies
To fulfill the Complementary Studies requirement, all students completing a B.A. Degree must take 12 units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing a Child and Adolescent Development major. Students may need to take additional units, however, to reach the 120 minimum units required for graduation.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Government Lifelong Learning</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>and Self-Development (LLD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

1 Elementary Education Course Policy: 30 hours observation/participation outside the classroom are required for Elementary Education courses (E ED). If a student takes more than one Elementary Education course per semester, 30 hours are the maximum total required and will cover all Elementary Education courses taken in that specific semester. Please note: The E ED course hours do not count toward the 150 pre-internship hours requirement.
American Ethnic and Racial Minorities (AERM)  
Environmental Sustainability (ES)  
Global Perspectives (GP)  
Social Justice (SJ)  

<table>
<thead>
<tr>
<th>Course</th>
<th>LD or UD</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>U.S. Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 411)

Transfer Student Roadmap (2 Year)

For students with an AA-T in Early Childhood Education. This roadmap opens in a new tab. (p. 414)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Early Childhood Education

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AIEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 210</td>
<td>Introduction to Applied Child and Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 215</td>
<td>Foundations in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 260</td>
<td>Children, Families, and Community: An Ecological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
<td>3</td>
</tr>
<tr>
<td>SPED 330 or SPED 370</td>
<td>Introduction to Disability or Young Children Disabled or At Risk and Their Families</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CFS 323 or E ED 611</td>
<td>Infants/Toddlers and Families or Advanced Issues in Infant-Toddler Education and Care</td>
<td>3</td>
</tr>
</tbody>
</table>
Supporting Children’s Learning Course  
GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)  
Complementary Studies or SF State Studies or University Elective  

<table>
<thead>
<tr>
<th>Seventh Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 625</td>
<td></td>
</tr>
<tr>
<td>CFS 322 or E ED 602</td>
<td></td>
</tr>
<tr>
<td>CFS 420 or E ED 610</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eighth Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 610 &amp; CAD 611</td>
<td></td>
</tr>
<tr>
<td>Administration/ Leadership &amp; Working with Families Course</td>
<td>3</td>
</tr>
<tr>
<td>Curriculum Specialties Course</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units: 120-122

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies**
   To fulfill the Complementary Studies requirement, all students completing a B.A. Degree must take 12 units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing a Child and Adolescent Development major. Students may need to take additional units, however, to reach the 120 minimum units required for graduation.
   
   Elementary Education Course Policy: 30 hours observation/participation outside the classroom are required for Elementary Education courses (E ED). If a student takes more than one Elementary Education course per semester, 30 hours are the maximum total required and will cover all Elementary Education courses taken in that specific semester.

5. Additional 150 hours required prior to start of internship in a licensed center/program with children birth to 5 yrs. Hours must be documented and on file in the CAD office prior to start of internship. See CAD website for deadline dates (http://cad.sfsu.edu/internships).

6. Supporting Children’s Learning Courses
   - E ED 600 Advanced Issues in Child Development and Learning (3 units)
   - E ED 603 Promoting Young Children’s Social and Emotional Development (3 units)
   - E ED 619 Children’s Play, Theory and Practice (3 units)
   - E ED 668 Multicultural Education and Social Justice for Young Children (3 units)
   - SPED 671 Positive Behavior Support for Young Children (3 units)
   - SPED 672 Inclusive Learning Environments for Young Children (3 units)

7. Administration/ Leadership & Working with Families Courses
   - CAD 510 Adult Supervision and Leadership in Early Childhood Programs (3 units)
   - CFS 324 Administration of Infant/Toddler Programs (3 units)
   - CFS 423 Administration of Programs for Young Children (3 units)
   - E ED 604 Advanced Issues in Collaboration with Families and Communities in ECE (3 units)
   - E ED 607 Leadership and Administration in ECE (3 units)
   - SPED 675 Working with Families of Young Children with Disabilities (3 units)
Curriculum Specialties Courses
- CAD 326 Jumpstart: Developing Literacy Skills in Young Children (3 units)
- ED 613 Integrated Arts Curriculum in ECE (3 units)
- ED 614 Science, Math, and Technology Curricular in ECE (3 units)
- ED 615 Environmental Education in ECE (3 units)
- ED 616 Language and Literacy in Multilingual ECE Settings (3 units)
- MUS 601 Music for Children (3 units)
Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood – Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Early Childhood Education. Nine units in the major (CAD 210, CAD 215, CAD 260) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
<td>3</td>
</tr>
<tr>
<td>SPED 330 or SPED 370</td>
<td>Introduction to Disability ¹ or Young Children Disabled or At Risk and Their Families</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Concentration: Child Development in Context – C. Supporting Children’s Learning – See List</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CFS 322 or E ED 602</td>
<td>Early Childhood Education Curriculum (Birth to Five) ¹ or Advanced Curriculum Study in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CFS 323 or E ED 611</td>
<td>Infants/Toddlers and Families or Advanced Issues in Infant-Toddler Education and Care</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Concentration: Special Issues – A. Administration/Leadership &amp; Working with Families – See List</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR ²</td>
<td>3</td>
</tr>
<tr>
<td>CAD 625</td>
<td>Children, Youth, and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>CFS 420 or E ED 610</td>
<td>Assessment and Observation with Children or Classroom Assessment and Evaluation for Young Children</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Concentration: Special Issues – B. Curriculum – See List</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 610</td>
<td>Early Childhood Internship ³</td>
<td>1</td>
</tr>
<tr>
<td>CAD 611</td>
<td>Early Childhood Internship ³</td>
<td>2</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if UD GE is already satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Electives – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ Also satisfy UD-D: E ED 603, E ED 602, E ED 604; SPED 330, SPED 370
CAD major (Concentration in Early Childhood): 36 units

- CAD 210, CAD 260, CAD 410 and ENG 214 (or equivalents) are prerequisites for CAD 500GW.
- An additional 150 hours of paid work or volunteer experience in a licensed center/program with children birth to five years is required prior to internship. Up to 90 hours of a community college practicum course (grade of C or better) can count toward the 150 pre-internship hours. Transcripts are sufficient proof.
- CAD 326 - Jumpstart only.
- Also satisfy UD-C: E ED 613, E ED 616

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 units**

- ENG 214 or equivalent A4 course (0– units): This course is a requirement to enter the major. Students are not admitted to the major unless this requirement has been completed. Completion in 60 units is possible, but not in four semesters if ENG 214 requirement is not satisfied before transfer.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
  - Upper division GE, areas B, C and D (9 units): Look for courses required in the major that also satisfy UD GE. See notes.
- Students entering this major with the AS-T in Early Childhood Education are not required to fulfill SF State Studies requirements.
- Complementary Studies is satisfied by taking the required minimum of 12 units in disciplines other than CAD.

**CAD major (Concentration in Early Childhood): 36 units**

CAD 210, CAD 215 and CAD 260 have been met in transfer.

- Major Core (12 units): CAD 410, CAD 450, CAD 500GW, and CAD 625. Includes GWAR.
- Concentration (24 units): Includes Culminating Experience.
- Minimum grade of C or better required for all courses in the major.

**University electives: 9 or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.

**Major Concentration: Child Development in Context – C. Supporting Children’s Learning**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 600</td>
<td>Advanced Issues in Child Development and Learning</td>
<td>3</td>
</tr>
<tr>
<td>E ED 603</td>
<td>Promoting Young Children's Social and Emotional Development</td>
<td>3</td>
</tr>
<tr>
<td>E ED 619</td>
<td>Children’s Play: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>E ED 668</td>
<td>Multicultural Education and Social Justice for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>SPED 671</td>
<td>Positive Behavior Support for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>SPED 672</td>
<td>Inclusive Learning Environments for Young Children</td>
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</table>

**Major Concentration: Special Issues – A. Administration/Leadership & Working with Families**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 510</td>
<td>Adult Supervision and Leadership in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>CFS 324</td>
<td>Administration of Infant/Toddler Programs</td>
<td>3</td>
</tr>
<tr>
<td>CFS 423</td>
<td>Administration of Programs for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>E ED 604</td>
<td>Advanced Issues in Collaboration with Families and Communities in ECE</td>
<td>3</td>
</tr>
<tr>
<td>E ED 607</td>
<td>Leadership and Administration in ECE</td>
<td>3</td>
</tr>
<tr>
<td>SPED 675</td>
<td>Working with Families of Young Children with Disabilities</td>
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</table>

**Major Concentration: Special Issues – B. Curriculum Specialties**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CAD 326</td>
<td>Jumpstart: Developing Literacy Skills in Young Children</td>
<td>3</td>
</tr>
<tr>
<td>E ED 613</td>
<td>Integrated Arts Curricula in ECE</td>
<td>3</td>
</tr>
<tr>
<td>E ED 614</td>
<td>Science, Math, and Technology Curricular in ECE</td>
<td>3</td>
</tr>
<tr>
<td>E ED 615</td>
<td>Environmental Education in ECE</td>
<td>3</td>
</tr>
<tr>
<td>E ED 616</td>
<td>Language and Literacy in Multilingual ECE Settings</td>
<td>3</td>
</tr>
<tr>
<td>MUS 601</td>
<td>Music for Children</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family

Application Filing Period

Because of high student demand, Child and Adolescent Development (CAD) was declared an impacted major in Fall 2011. Therefore, CAD admits only upper division students (minimum 60 units completed) to the major in fall and spring semesters. We encourage students who are interested in the CAD major to apply even though it is impacted. Transfer students who apply to the major must be accepted first by the University and second, by the CAD Department. The university’s application form and due dates may be found here: https://www.sfsu.edu/~admisrec/reg/reg.html

Current SF State students who wish to change their major to CAD for the fall semester should submit an application to the CAD department during the October 1 through November 30 application filing period. Students who wish to be considered for spring admission should apply between August 1 – 31. The department does not accept late applications for either fall or spring admissions. Again, if you are interested in the CAD major, we encourage you to apply even though it is impacted.

Please note: The following lower division courses are prerequisites for the upper division CAD courses in the Core Curriculum that are required for all CAD majors. They must be completed before students can take upper division CAD courses in the Core Curriculum. Failure to take these lower division prerequisite courses will delay progress in the major.

- CAD 210 with a grade of C or better
- CAD 260 with a grade of C or better
- ENG 214 with a grade of C- or better
- Minimum of 60 units completed (junior standing)

Community college course equivalents are accepted if grade requirements are met and the courses were formally articulated at the time the courses were taken.

Course policies for the major

- Courses in the major must be completed with a letter grade of C or better. CR/NC grading is not accepted except for the internship courses: CAD 601 and CAD 611.
- Courses taken in the core may not be counted in a concentration or vice versa.

Concentration in School Age Child and Family

See general information for all Bachelor of Arts in Child and Adolescent Development majors above.

The School Age Child and Family concentration has been developed for students who wish to work primarily with school age children and their families in settings such as elementary schools, social service agencies, and after school programs. This concentration is recommended as preparation for students who wish to become elementary school teachers, and who, therefore, plan to enroll in a Multiple Subjects Teaching Credential Program after graduation.
LTNS 315 Latina/os in California 3
GEOG 101 Our Physical Environment 3
GEOG 102 The Human Environment (no longer required as partner to GEOG 101) 3
GEOG 107 World Regions and Interrelations 3
Art
Select one of the following:
DANC 340 Creative Process in Dance for Children 3
EDUC 450 Art and Learning 3
MUS 601 Music for Children 3
TH A 451 Storytelling and Folk Literature 3
TH A 452 Theatre in Education 3
Capstone Experience
CAD 600 Child and Adolescent Development Internship Seminar 2
CAD 601 Child and Adolescent Development Internship 2

1 Must be taken concurrently.

Complementary Studies
To fulfill the University’s Complementary Studies requirement, all students completing a B.A. Degree must take 12 units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing the Child and Adolescent Development degree. However, students may need to take additional units to reach the minimum of 120 units for graduation.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
</tbody>
</table>

Lifelong Learning LD or UD and Self-Development (LLD)
Physical and/or Life Science UD 3 UD-B
Arts and/or Humanities UD 3 UD-C
Social Sciences UD 3 UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial Minorities (AERM) LD or UD 3
Environmental Sustainability (ES) LD or UD 3
Global Perspectives (GP) LD or UD 3
Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 421)

Transfer Student Roadmaps (2 Year)
For students with a Child and Adolescent Development Associate Degree for Transfer. This roadmap opens in a new tab. (p. 424)
For students with an Early Childhood Education Associate Degree for Transfer. This roadmap opens in a new tab. (p. 426)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Child and Adolescent Development or Early Childhood Education

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.
Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

• How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring
semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 46

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<tr>
<td>GE Area A: Written English Communication (A2)</td>
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<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
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<td><strong>Second Semester</strong></td>
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<tr>
<td>CAD 210</td>
<td>Introduction to Applied Child and Adolescent Development</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>CAD 260</td>
<td>Children, Families, and Community: An Ecological Perspective</td>
<td>3</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
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<tr>
<td>MATH 165</td>
<td>Concepts of the Number System</td>
<td>3</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<td><strong>Units</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<td>C D 655 or COMM 554</td>
<td>Dynamics of Communication Development or Oral Interpretation of Children's Literature</td>
<td>3-4</td>
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<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
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<tr>
<td>MATH 565</td>
<td>Concepts of Geometry, Measurement, and Probability</td>
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<td>Science Course</td>
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<td><strong>Units</strong></td>
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<tr>
<td>AA S 512</td>
<td>Asian American Children's/Adolescent Literature</td>
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<tr>
<td>CWL 440</td>
<td>&quot;Typical American&quot;: Narratives of Multiculturalism in the Americas from 1492 to the Present</td>
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<td>ENG 655</td>
<td>Literature and the Adolescent Reader</td>
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<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR</td>
<td></td>
</tr>
<tr>
<td>KIN 401</td>
<td>Elementary School Physical Education, K-5</td>
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<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td><strong>Seventh Semester</strong></td>
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<tr>
<td>CAD 625</td>
<td>Children, Youth, and Public Policy</td>
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<tr>
<td>Social Science Course</td>
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<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td></td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<td><strong>Units</strong></td>
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<td><strong>Eighth Semester</strong></td>
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<tr>
<td>CAD 600</td>
<td>Child and Adolescent Development</td>
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<tr>
<td>&amp; CAD 601</td>
<td>Internship Seminar</td>
<td></td>
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<tr>
<td>Art Course</td>
<td>and Child and Adolescent Development</td>
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<tr>
<td></td>
<td>Internship</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
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<tr>
<td><strong>Units</strong></td>
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</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>120-123</td>
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</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. Complementary Studies
   To fulfill the University's Complementary Studies requirement, all students completing a B.A. Degree must take 12 units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing the Child and Adolescent Development degree. However, students may need to take additional units to reach the minimum of 120 units for graduation.
5. **Science Courses**
   BIOL 310 Biology for Today's World (3 units)
   BIOL 313 Principles of Ecology (3 units)
   BIOL 317 Ecology of California (3 units)
   BIOL 318 Our Endangered Planet (3 units)
   ED ED 655 Hands on Undergraduate Science Education Experience (3 units)
6. **Social Science Courses**
   AIS 410 Perspectives of Native California Indians (3 units)
   GEOG 101 Our Physical Environment (3 units)
   GEOG 102 The Human Environment (3 units)
   GEOG 107 World Regions and Interrelations (3 units)
   GEOG 552 Geography of California (3 units)
   HIST 450 History of California (3 units)
   LTNS 315 Latina/os in California (3 units)
Art Courses
DANC 340 Creative Process in Dance for Children (3 units)
EDUC 450 Art and Learning (3 units)
MUS 601 Music for Children (3 units)
TH A 451 Storytelling and Folk Literature (3 units)
TH A 452 Theatre in Education (3 units)
### Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family – CAD Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Child and Adolescent Development. Three units in the major (CAD 210) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** ([http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students](http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students)).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td><strong>Select One:</strong></td>
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<tr>
<td>AA S 512</td>
<td>Asian American Children's/Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>CWL 440</td>
<td>“Typical American”: Narratives of Multiculturalism in the Americas from 1492 to the Present</td>
<td></td>
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<tr>
<td>ENG 655</td>
<td>Literature and the Adolescent Reader</td>
<td></td>
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<tr>
<td>C D 655 or COMM 554</td>
<td>Dynamics of Communication Development or Oral Interpretation of Children's Literature</td>
<td>3-4</td>
</tr>
<tr>
<td>CAD 260</td>
<td>Children, Families, and Community: An Ecological Perspective</td>
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<td>Major Concentration: Social Science – See List</td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
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<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
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<tr>
<td>MATH 165</td>
<td>Concepts of the Number System</td>
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<tr>
<td>Major Concentration: Art – See List</td>
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<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>CAD 500G</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR</td>
<td>3</td>
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<td>KIN 401</td>
<td>Elementary School Physical Education, K-5</td>
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<td>Major Concentration: Science – See List</td>
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<tr>
<td>US History (p. 74)</td>
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<td>or University Elective if US History met before transfer</td>
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<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>CAD 600 or CAD 601</td>
<td>Child and Adolescent Development Internship Seminar and Child and Adolescent Development Internship</td>
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<td>CAD 625</td>
<td>Children, Youth, and Public Policy</td>
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<td>MATH 565</td>
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<td>U.S. and California Government (p. 75)</td>
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<td>or University Elective if US/CA Government met before transfer</td>
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University Elective  

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<table>
<thead>
<tr>
<th>Units</th>
<th>14</th>
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</thead>
</table>

| Total Units | 60 |

1. AA S 512, CWL 440, and TH A 451 satisfy UD-C  
2. C D 655, GEOG 552, and HIST 450 satisfy UD-D  
3. CAD 210, CAD 260, CAD 410 and ENG 214 (or equivalents) are prerequisites for CAD 500GW  
4. BIOL 310 and BIOL 318 satisfy UD-B

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 units**

- ENG 214 or equivalent A4 course (0–3 units): This course is a major prerequisite. Students are not admitted to the major unless this requirement has been completed. Completion in 60 units is possible, but not in four semesters if ENG 214 requirement is not satisfied before transfer.  
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer  
- Upper division GE, areas B, C and D (0–9 units): Look for courses required in the major that also satisfy UD GE. See notes.  
- Students entering this major with the AA-T in Child and Adolescent Development are not required to fulfill SF State Studies requirements.  
- Complementary Studies is satisfied by taking the required minimum of 12 units in disciplines other than CAD.

**CAD major (Concentration in School Age Child and Family): 43–44 units**

CAD 210 met in transfer.

- Major Core (15 units): Includes GWAR  
- Concentration (28–29 units): Includes Capstone  
- Minimum grade of C or better required for all courses in the major.

**University Electives: 1 or More units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State - some courses may meet more than one requirement, e.g. both in UD GE and the major.

**Major Concentration: Social Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>AIS 410</td>
<td>Perspectives of Native California Indians</td>
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<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
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<tr>
<td>GEOG 102</td>
<td>The Human Environment</td>
<td>3</td>
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<tr>
<td>GEOG 107</td>
<td>World Regions and Interrelations</td>
<td>3</td>
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<td>GEOG 552</td>
<td>Geography of California</td>
<td>3</td>
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<tr>
<td>HIST 450</td>
<td>History of California</td>
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<tr>
<td>LTNS 315</td>
<td>Latina/os in California</td>
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**Major Concentration: Art**

<table>
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<tr>
<th>Course</th>
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<tr>
<td>DANC 340</td>
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<td>EDUC 450</td>
<td>Art and Learning</td>
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<td>MUS 601</td>
<td>Music for Children</td>
<td>3</td>
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<tr>
<td>TH A 451</td>
<td>Storytelling and Folk Literature</td>
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<td>TH A 452</td>
<td>Theatre in Education</td>
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**Major Concentration: Science**

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<tr>
<td>BIOL 310</td>
<td>Biology for Today's World</td>
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<td>BIOL 313</td>
<td>Principles of Ecology</td>
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<td>BIOL 317</td>
<td>Ecology of California</td>
<td>3</td>
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<td>BIOL 318</td>
<td>Our Endangered Planet</td>
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<tr>
<td>E ED 655</td>
<td>Hands on Undergraduate Science Education Experience</td>
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## Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family – ECE Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Early Childhood Education.

Six units in the major (CAD 210, CAD 260) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development ¹</td>
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<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
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<tr>
<td>Major Concentration: Social Science – See List</td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td>University Elective</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<td>15</td>
</tr>
<tr>
<td>C D 655 or COMM 554</td>
<td>Dynamics of Communication Development ² or Oral Interpretation of Children’s Literature</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 165</td>
<td>Concepts of the Number System</td>
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</tr>
<tr>
<td>Major Concentration: Art – See List</td>
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<td>U.S. and California Government (p. 75)</td>
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<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
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<tr>
<td>Select One:</td>
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<tr>
<td>AA S 512</td>
<td>Asian American Children’s/Adolescent Literature ³</td>
<td>3</td>
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<tr>
<td>CWL 440</td>
<td>&quot;Typical American&quot;: Narratives of Multiculturalism in the Americas from 1492 to the Present ³</td>
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<tr>
<td>ENG 655</td>
<td>Literature and the Adolescent Reader</td>
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<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR ¹</td>
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<tr>
<td>MATH 565</td>
<td>Concepts of Geometry, Measurement, and Probability</td>
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<tr>
<td>Major Concentration: Science – See List</td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<tr>
<td>or University Elective if UD GE is already satisfied</td>
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<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>CAD 600 &amp; CAD 601</td>
<td>Child and Adolescent Development Internship and Child and Adolescent Development Internship</td>
<td>4</td>
</tr>
<tr>
<td>CAD 625</td>
<td>Children, Youth, and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>KIN 401</td>
<td>Elementary School Physical Education, K-5</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 units

- ENG 214 or equivalent A4 course (0–3 units): This course is a major prerequisite. Students are not admitted to the major unless this requirement has been completed. Completion in 60 units is possible, but not in four semesters if ENG 214 requirement is not satisfied before transfer.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units): Look for courses required in the major that also satisfy UD GE. See notes.
- Students entering this major with the AS-T in Early Childhood Education are not required to fulfill SF State Studies requirements.
- Complementary Studies is satisfied by taking the required minimum of 12 units in disciplines other than CAD.

CAD major (Concentration in School Age Child and Family): 40–41 units

CAD 210 and CAD 260 met in transfer.

- Major Core (12 units): Includes GWAR.
- Concentration (28–29 units): Includes Capstone.
- Minimum grade of C or better required for all courses in the major.

University Electives: 4 or More units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major.

Major Concentration: Social Science

AIS 410 Perspectives of Native California Indians 3
GEOG 101 Our Physical Environment 3
GEOG 102 The Human Environment 3
GEOG 107 World Regions and Interrelations 3
GEOG 552 Geography of California 2 3
HIST 450 History of California 2 3
LTNS 315 Latina/os in California 3

Major Concentration: Art

DANC 340 Creative Process in Dance for Children 3
EDUC 450 Art and Learning 3
MUS 601 Music for Children 3
TH A 451 Storytelling and Folk Literature 3 3
TH A 452 Theatre in Education 3

Major Concentration: Science

BIOL 310 Biology for Today's World 4 3
BIOL 313 Principles of Ecology 3
BIOL 317 Ecology of California 3
BIOL 318 Our Endangered Planet 4 3
E ED 655 Hands on Undergraduate Science Education Experience 3
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time

Application Filing Period

Because of high student demand, Child and Adolescent Development (CAD) was declared an impacted major in Fall 2011. Therefore, CAD admits only upper division students (minimum 60 units completed) to the major in fall and spring semesters. We encourage students who are interested in the CAD major to apply even though it is impacted. Transfer students who apply to the major must be accepted first by the University and second, by the CAD Department. The university’s application form and due dates may be found here: https://www.sfsu.edu/~admisrec/reg/reg.html

Current SF State students who wish to change their major to CAD for the fall semester should submit an application to the CAD department during the October 1 through November 30 application filing period. Students who wish to be considered for spring admission should apply between August 1 – 31. The department does not accept late applications for either fall or spring admissions. Again, if you are interested in the CAD major, we encourage you to apply even though it is impacted.

Please note: The following lower division courses are prerequisites for the upper division CAD courses in the Core Curriculum that are required for all CAD majors. They must be completed before students can take upper division CAD courses in the Core Curriculum. Failure to take these lower division prerequisite courses will delay progress in the major.

- CAD 210 with a grade of C or better
- CAD 260 with a grade of C or better
- ENG 214 with a grade of C or better
- Minimum of 60 units completed (junior standing)

Community college course equivalents are accepted if grade requirements are met and the courses were formally articulated at the time the courses were taken.

Course policies for the major

- Courses in the major must be completed with a letter grade of C or better. CR/NC grading is not accepted except for the internship courses: CAD 601 and CAD 611.
- Courses taken in the core may not be counted in a concentration or vice versa.

Concentration in Youth Work and Out of School Time

See general information for all Bachelor of Arts in Child and Adolescent Development candidates above.

The Youth Work and Out of School Time concentration prepares students to work primarily with school age children and adolescents in out of school time programs. Such programs include afterschool programs, juvenile justice, recreation, residential treatment, social services, mental health, and public health.

Child and Adolescent Development Major (B.A.): Concentration in Youth Work and Out of School Time — Minimum 44 Units

Core Requirements — 18 units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CAD 210</td>
<td>Introduction to Applied Child and Adolescent Development</td>
<td>3</td>
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<tr>
<td>CAD 260</td>
<td>Children, Families, and Community. An Ecological Perspective</td>
<td>3</td>
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<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
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</tr>
<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
<td>3</td>
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<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR</td>
<td>3</td>
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</table>

Special Topics

- CAD 625 Children, Youth, and Public Policy | 3

Concentration in Youth Work and Out of School Time — 26–27 units

Youth and Context

Select one of the following:

- AFRS 678 Urban Issues of Black Children and Youth | 3
- C J 475 Intervention Policies in Juvenile Justice | 3
- C J/LTNS 485 Latina/o Youth, Crime, and Justice | 3
- RRS 480 Youth Culture, Race and Resistance | 3
- SOC 452/C J 470 Juvenile Justice | 4

Youth Development

- CFS 321 Adolescents and Families | 3
  or PSY 430 Adolescent Psychology | 3

Community Youth Development

CAD 400 Community Youth Development | 3

Experiential Learning

- CAD 430 Experiential and Activity Based Learning Seminar | 2
- CAD 431 Experiential and Activity Based Learning Practice | 2

Special Topics

Select one of the following:

- RPT 210 Arts and Crafts for Leisure | 3
- RPT 380 Developmental Play Processes | 3
- RPT 440 Urban Recreation and Parks | 3

Ethics

- CAD 540 Ethics and Principles in Serving Youth | 3

Program Development and Evaluation

- RPT 400 Programming in Recreation, Parks, and Tourism | 3

Culminating Experience

- CAD 630 Youth Work and Out of School Time Internship Seminar | 1
- CAD 631 Youth Work and Out of School Time Internship | 3

1 Both courses are required and must be taken concurrently.
Complementary Studies
To fulfill the University’s Complementary Studies requirement, all students completing a B.A. Degree must take 12 units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing the Child and Adolescent Development degree. However, students may need to take additional units to reach the minimum of 120 units for graduation.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<tr>
<td>Arts or Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
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<td>UD-C</td>
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<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  
LD or UD  3

Environmental Sustainability (ES)  
LD or UD  3

Global Perspectives (GP)  
LD or UD  3

Social Justice (SJ)  
LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 432)

Transfer Student Roadmaps (2 Year)
For students with an AA-T Child and Adolescent Development. This roadmap opens in a new tab. (p. 434)

For students with an AA-T Early Childhood Education. This roadmap opens in a new tab. (p. 436)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Child and Adolescent Development or Early Childhood Education

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.
### Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 44

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td><strong>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>GE Area A: Written English Communication (A2)</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>GE Area B: Quantitative Reasoning (B4)</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>GE Area C: Arts (C1) or Humanities (C2)</strong></td>
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<tr>
<td><strong>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</strong></td>
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<td><strong>Units</strong></td>
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<td><strong>Second Semester</strong></td>
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<tr>
<td><strong>CAD 210</strong></td>
<td>Introduction to Applied Child and Adolescent Development</td>
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<tr>
<td><strong>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</strong></td>
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<tr>
<td><strong>GE Area A: Written English Communication II (A4)</strong></td>
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<td><strong>or Written English Communication (A2) Stretch II</strong></td>
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<td><strong>GE Area C: Arts (C1)</strong></td>
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<td><strong>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</strong></td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td><strong>CAD 260</strong></td>
<td>Children, Families, and Community: An Ecological Perspective</td>
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<tr>
<td><strong>GE Area A: Written English Communication II (A4) if not already satisfied</strong></td>
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<tr>
<td><strong>or SF State Studies or University Elective</strong></td>
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<tr>
<td><strong>GE Area B: Physical Science (B1) and Laboratory Science (B3)</strong></td>
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<tr>
<td><strong>GE Area C: Humanities: Literature (C3)</strong></td>
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<td><strong>Units</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<td><strong>CAD 410</strong></td>
<td>Applied Child and Youth Development</td>
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<td><strong>GE Area B: Life Science (B2) and Laboratory Science (B3)</strong></td>
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<td><strong>CFS 321</strong></td>
<td>Adolescents and Families or Adolescent Psychology</td>
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<td><strong>Youth and Context Course</strong></td>
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<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR</td>
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<td>Special Topics Course</td>
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<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>Seventh Semester</td>
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<td>CAD 540</td>
<td>Ethics and Principles in Serving Youth</td>
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<td>CAD 625</td>
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<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>CAD 630 &amp; CAD 631</td>
<td>Youth Work and Out of School Time Internship</td>
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<td>RPT 400</td>
<td>Programming in Recreation, Parks, and Tourism</td>
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<tr>
<td>Total Units</td>
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<td>14</td>
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</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. Complementary Studies
   To fulfill the University’s Complementary Studies requirement, all students completing a B.A. Degree must take 12 units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing the Child and Adolescent Development degree. However, students may need to take additional units to reach the minimum of 120 units for graduation.
5. Youth and Context
   AFRS 678 Urban Issues of Black Children and Youth (3 units)
   C J 475 Intervention Policies in Juvenile Justice (3 units)
   C J 485/LTNS 485 Latina/o Youth, Crime, and Justice (3 units)
   RRS 480 Youth Culture, Race and Resistance (3 units)
   SOC 452/C J 470 Juvenile Justice (4 units)
6. Special Topics
   RPT 210 Arts and Crafts for Leisure (3 units)
   RPT 380 Developmental Play Processes (3 units)
   RPT 440 Urban Recreation and Parks (3 units)
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time – Child and Adolescent Development Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Child and Adolescent Development. Three units in the major (CAD 210) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 260</td>
<td>Children, Families, and Community: An Ecological Perspective</td>
<td>3</td>
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<tr>
<td>CFS 321 or PSY 430</td>
<td>Adolescents and Families or Adolescent Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>RPT 210</td>
<td>Arts and Crafts for Leisure</td>
<td></td>
</tr>
<tr>
<td>RPT 380</td>
<td>Developmental Play Processes ¹</td>
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</tr>
<tr>
<td>RPT 440</td>
<td>Urban Recreation and Parks ¹</td>
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<td><strong>Major Concentration: Youth and Context – See List</strong></td>
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<td>16</td>
</tr>
<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development ²</td>
<td>3</td>
</tr>
<tr>
<td>CAD 430 &amp; CAD 431</td>
<td>Experiential and Activity Based Learning Seminar and Experiential and Activity Based Learning Practice</td>
<td>4</td>
</tr>
<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td><strong>Units</strong></td>
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<td>CAD 400</td>
<td>Community Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 500GW</td>
<td>Action Research Methods in Child and Adolescent Development - GWAR ²</td>
<td>3</td>
</tr>
<tr>
<td>CAD 540</td>
<td>Ethics and Principles in Serving Youth</td>
<td>3</td>
</tr>
<tr>
<td>CAD 625</td>
<td>Children, Youth, and Public Policy</td>
<td>3</td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>CAD 630</td>
<td>Youth Work and Out of School Time Internship Seminar</td>
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<tr>
<td>CAD 631</td>
<td>Youth Work and Out of School Time Internship</td>
<td>3</td>
</tr>
<tr>
<td>RPT 400</td>
<td>Programming in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
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<td>3</td>
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<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td>3</td>
</tr>
<tr>
<td>or University elective if UD GE is already satisfied</td>
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<td></td>
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</tbody>
</table>

1. Required to complete 90 clock hours for transfer.
2. Required to complete 60 clock hours for transfer.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 units

- ENG 214 or equivalent A4 course (0–3 units): This course is a major prerequisite. Students are not admitted to the major unless this requirement has been completed. Completion in 60 units is possible, but not in four semesters if ENG 214 requirement is not satisfied before transfer.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer.
- Upper division GE, areas B, C and D (9 units): Look for courses required in the major that also satisfy UD GE. See notes.
- Students entering this major with the AA-T in Child and Adolescent Development are not required to fulfill SF State Studies requirements.
- Complementary Studies is satisfied by taking the required minimum of 12 units in disciplines other than CAD.

CAD Major (Concentration in Youth Work & Out of School Time): 41–42 units

[CAD 210 met in transfer]

- Major Core (15 units): Includes GWAR.
- Concentration (26-27 units): Includes Culminating Experience.
- Minimum grade of C or better required for all courses in the major.

University Electives: 3 or More units

 Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major.

Major Concentration: Youth and Context

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 678</td>
<td>Urban Issues of Black Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>C J 470/SOC 452</td>
<td>Juvenile Justice</td>
<td>4</td>
</tr>
<tr>
<td>C J 475</td>
<td>Intervention Policies in Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J/LTNS 485</td>
<td>Latina/o Youth, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>RRS 480</td>
<td>Youth Culture, Race and Resistance 1</td>
<td>3</td>
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</tbody>
</table>

1 RPT 380, RPT 440, RRS 480 satisfy UD-D.
2 CAD 410 is a prerequisite for CAD 500GW.
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time – ECE Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2016–2017 with an AS-T in Early Childhood Education (ECE) with 60 units in transfer. Six units in the major (CAD 210, CAD 260) and all lower division GE requirements have been satisfied. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 400</td>
<td>Community Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 410</td>
<td>Applied Child and Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>CAD 450</td>
<td>Understanding and working with Diverse Families</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration: Youth and Context (from the following list)</td>
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<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second Semester</td>
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</tr>
<tr>
<td>CAD 430</td>
<td>Experiential and Activity Based Learning Seminar</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CAD 431</td>
<td>Experiential and Activity Based Learning Practice</td>
<td></td>
</tr>
<tr>
<td>CFS 321</td>
<td>Adolescents and Families</td>
<td>3</td>
</tr>
<tr>
<td>or PSY 430</td>
<td>or Adolescent Psychology</td>
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</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
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<tr>
<td>RPT 210</td>
<td>Arts and Crafts for Leisure</td>
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<td>RPT 380</td>
<td>Developmental Play Processes</td>
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<td>RPT 440</td>
<td>Urban Recreation and Parks</td>
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<tr>
<td>University Elective</td>
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<td>3</td>
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<td>Third Semester</td>
<td></td>
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<tr>
<td>Fourth Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD 630</td>
<td>Youth Work and Out of School Time</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Internship Seminar</td>
<td></td>
</tr>
<tr>
<td>CAD 631</td>
<td>Youth Work and Out of School Time</td>
<td>3</td>
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<td></td>
<td>Internship</td>
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<td></td>
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</table>
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 units

- ENG 214 or equivalent A4 course (0–3 units): This course is a major prerequisite. Students are not admitted to the major unless this requirement has been completed. Completion in 60 units is possible, but not in four semesters if ENG 214 requirement is not satisfied before transfer.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer.
- Upper division GE, areas B, C and D (9 units): Look for courses required in the major that also satisfy UD GE. See notes.
- Students entering this major with the AS-T in Early Childhood Education are not required to fulfill SF State Studies requirements.
- Complementary Studies is satisfied by taking the required minimum of 12 units in disciplines other than CAD.

CAD major (Concentration in Youth Work & Out of School Time: 38–39 units)

CAD 210 and CAD 260 met in transfer.

- Major Core (12 units): Includes GWAR
- Concentration (26–27 units): Includes Culminating Experience.
- Minimum grade of C or better required for all courses in the major.

University Electives: 6 or More units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.

Major Concentration: Youth and Context

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<tr>
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</tr>
</thead>
<tbody>
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<td>AFRS 678/SOC 452</td>
<td>Urban Issues of Black Children and Youth</td>
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<tr>
<td>C J 470</td>
<td>Juvenile Justice</td>
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<tr>
<td>C J 475</td>
<td>Intervention Policies in Juvenile Justice</td>
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</tr>
<tr>
<td>C J/LTNS 485</td>
<td>Latina/o Youth, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>RRS 480</td>
<td>Youth Culture, Race and Resistance 2</td>
<td>3</td>
</tr>
</tbody>
</table>

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1 CAD 410 is a prerequisite for CAD 500GW.
2 RRS 480, RPT 380, and RPT 440 satisfy UD-D.
CONSUMER AND FAMILY STUDIES/DIETETICS

College of Health and Social Sciences
Dean: Alvin Alvarez

Department of Family, Interior, Nutrition & Apparel (FINA)
Burk Hall, Room 329
(415) 338–1219
Website: cfsd.sfsu.edu (http://cfsd.sfsu.edu/Family%20and%20Consumer%20Sciences)
Chair: Connie Ulasewicz
Graduate Coordinator: Connie Ulasewicz

Mission Statement
The mission of the Department of Family, Interior, Nutrition & Apparel (FINA) is to provide experiential programs focused on empowering individuals and strengthening families, communities, and the institutions which serve them, with a commitment to social justice and a goal of improving the quality of life within a dynamic and diverse global environment.

Program Scope
FINA, formerly the Department of Child & Family Studies/Dietetics, offers 4 undergraduate degrees and one graduate degree:

- Bachelor of Science in Interior Design (http://cfsd.sfsu.edu/InteriorDesign)
- Bachelor of Science in Dietetics (http://cfsd.sfsu.edu/Dietetics)
- Bachelor of Science in Apparel Design & Merchandising (http://cfsd.sfsu.edu/Apparel%20Design%20and%20Merchandising)
- Bachelor of Family & Consumer Sciences (http://cfsd.sfsu.edu/Family%20and%20Consumer%20Sciences)
- Masters of Art in Family & Consumer Sciences (http://cfsd.sfsu.edu/MA%20Family%20and%20Consumer%20Sciences)

Students earning a Bachelor of Arts in Family and Consumer Sciences, or the Bachelor of Science in Dietetics, Apparel Design and Merchandising, or Interior Design, with a 3.0 grade point average, may qualify for admission to the Master of Arts in Family and Consumer Sciences.

Advising
The department faculty offers much advising to assist students with their program and graduation needs as well as understanding the relevancy of the courses they take and their career outlook.

Career Outlook
The diversity of career options for students within our programs is great as each program offers particular paths to employment.

Child & Family Studies – Business, Consumer, & Family Resource Specialist; Youth Development Coordinator; Family Life or Early Childhood Educator; Child & Family Advocate and Policy Analyst

Interior Design – Residential and Commercial Interior Design

Dietetics – Food Specialist; Clinical Dietician; Food Service Systems Management; Nutrition Education in Hospitals, Industry or Government Agencies

Apparel Design & Merchandising – Apparel designer, Fashion Merchandiser; Visual Merchandiser; Brand Manager; Textile Specialist; Product Development

Professor
Ulasewicz

Associate Professors
Johnson-Carroll, Vouchilas

Assistant Professors
George, Taylor

Majors
- Bachelor of Arts in Family and Consumer Sciences (p. 438)
- Bachelor of Science in Apparel Design and Merchandising (p. 446)
- Bachelor of Science in Dietetics (p. 453)
- Bachelor of Science in Interior Design (p. 458)

Masters
- Master of Arts in Family and Consumer Sciences (p. 464)

Certificate
- Certificate in Dietetics (p. 463)

Bachelor of Arts in Family and Consumer Sciences
The Bachelor or Arts in Family & Consumer Sciences enables a student to specialize in one of two emphases:

1. Child & Family Studies
2. Nutrition/Foodservice System Management

The common core of the program is devoted to students acquiring an understanding of family transitions, diversity, and resource management; sensitivities to the needs and value systems of individuals, families, and groups which vary by age, socioeconomic status, and ethnic identity; and the role expectations of professional family life and community educators. Students pursuing this major, depending upon their areas of specialization, may complete field experiences in business, education, government, or private social service agencies. These field experiences serve as integrating experiences for students prior to their entry into professional roles.

Mandatory Advising
FCS majors must see an advisor to prepare a Graduation Plan which outlines their individual course sequence. Some major classes may require the plan be presented on the first day of classes. See department office (Burk Hall 329) for information to include in the advising folder. Students who wish for credits earned at another institution to be
accepted in lieu of courses offered for the major at SF State must obtain acceptance from the major advisor and the department chair.

Writing Competence
Good writing skills are necessary for success in the major. Second year written composition (ENG 214 or equivalent) with a grade of C- or better is required to take CFS 312GW, the beginning of the sequence of upper division CFS courses, which fulfills the GWAR requirement.

Degree Requirements
A prescribed sequence of courses must be adhered to as some classes are offered only in the fall or spring semesters. All major courses must be passed with a letter grade of C- or better. CR/NC is not allowed.

Family and Consumer Sciences (B.A.) — 45 Units

Core Courses (12 Units)
- CFS 312GW Families, Individuals, and Environments - GWAR 3
- CFS 325 Transitions in the Family Life Cycle 3
- CFS 430 Management Dynamics: Life Goals and Decisions 3
- CFS 600 Professional Development 3

Family Studies Emphasis (33 Units)
- CFS 320 Children and Families 3
- CFS 321 Adolescents and Families 3
- CFS 322 Early Childhood Education Curriculum (Birth to Five) 3
- CFS 323 Infants/Toddlers and Families 3
- CFS 420 Assessment and Observation with Children 3
- CFS 423 Administration of Programs for Young Children 3
- CFS 424 Supervised Experiences with Young Children 3
- CFS 426 Family Crises: Drug Dependency and Eating Disorders 3
- CFS 428 Children and Families with Violence, Abuse, and Neglect 3

Electives: Any CFS/D Department course or another course upon approval of advisor 6

1 Courses needed for the California Child Development Master Teacher & Site Supervisor Permits.

Nutrition/Foodservice Systems Management Emphasis (33 Units)
- CFS 352 Principles of Food Preparation 3
- CFS 355 Nutrition for Wellness 3
- CFS 453 Nutrition in the Life Cycle 3
- CHEM 101 Survey of Chemistry 4
- CHEM 102 & CHEM 109 Survey of Chemistry Laboratory
  and Fundamentals of Food Chemistry: Natural Constituents and Additives 4
  & CHEM 110 and Fundamentals of Food Chemistry: Natural Constituents and Additives Laboratory 4
- DFM 353GW Foodservice Systems Management - GWAR 3
- DFM 458 Management of Quantity Food Purchasing and Production 3

MGMT 405 Introduction to Management and Organizational Behavior 3
MGMT 610 Human Resource Management 3
or HTM 560 Hospitality Human Resource Management 3
Electives: Any CFS/D Department courses or other courses upon approval of advisor 8

Complementary Studies
Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Students in the Bachelor of Arts in Family & Consumer Sciences major who wish to satisfy the Complementary Studies Requirement with a coherent group of courses complementary to the major must have the courses approved by an advisor in the major. Consult with a major advisor for assistance.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
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<td>Oral</td>
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<td>Communication</td>
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<tr>
<td>Written English Communication I</td>
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<td></td>
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</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
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<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
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<td>Physical Science</td>
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<td>B1</td>
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<tr>
<td>Life Science</td>
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<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
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<td>3</td>
<td>B4</td>
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<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
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<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
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<td>Humanities: Literature</td>
<td>LD</td>
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<td>C3</td>
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<tr>
<td>Social Sciences</td>
<td>LD</td>
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<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
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<td>D2</td>
</tr>
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<td>Social Sciences: US &amp; CA Government</td>
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<tr>
<td>Lifelong Learning</td>
<td>LD or UD</td>
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<td>E</td>
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<td>Physical and/or Life Science</td>
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<tr>
<td>Arts and/or Humanities</td>
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<td>3</td>
<td>UD-B</td>
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<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
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</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Course</th>
<th>Division</th>
<th>Units</th>
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<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
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<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)

Family Studies Emphasis
This roadmap opens in a new tab. (p. 442)

Nutrition/Foodservice Systems Management Emphasis
This roadmap opens in a new tab. (p. 444)

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Family and Consumer Sciences – Family Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
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<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
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<td></td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<td><strong>Fourth Semester</strong></td>
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</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>CFS 312GW</td>
<td>Families, Individuals, and Environments - GWAR</td>
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<tr>
<td>CFS 320</td>
<td>Children and Families</td>
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<td>CFS 321</td>
<td>Adolescents and Families</td>
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<td>CFS 325</td>
<td>Transitions in the Family Life Cycle</td>
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<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>CFS 323</td>
<td>Infants/Toddlers and Families</td>
<td>3</td>
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<tr>
<td>CFS 426</td>
<td>Family Crises: Drug Dependency and Eating Disorders</td>
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<tr>
<td>CFS 428</td>
<td>Children and Families with Violence, Abuse, and Neglect</td>
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<tr>
<td>CFS 430</td>
<td>Management Dynamics: Life Goals and Decisions</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td><strong>Units</strong></td>
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### Seventh Semester

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<th>Description</th>
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<tr>
<td>CFS 322</td>
<td>Early Childhood Education Curriculum (Birth to Five)</td>
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<tr>
<td>CFS 420</td>
<td>Assessment and Observation with Children</td>
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<tr>
<td>CFS 423</td>
<td>Administration of Programs for Young Children</td>
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<td>Emphasis Elective (6 Units Total): Any CFS/D Department Course or Another Course Upon Approval of Advisor</td>
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Units: 15

### Eighth Semester

<table>
<thead>
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<th>Course</th>
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<tr>
<td>CFS 424</td>
<td>Supervised Experiences with Young Children</td>
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<tr>
<td>CFS 600</td>
<td>Professional Development</td>
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<tr>
<td>Emphasis Elective (6 Units Total): Any CFS/D Department Course or Another Course Upon Approval of Advisor</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two[^4]</td>
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</table>

Units: 15

Total Units: 120-122

[^1]: To avoid taking additional units, it is recommended that you meet [LLD and SF State Studies](#) requirements (AERM, GP, ES, SJ) within your GE or major.

[^2]: ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

[^3]: Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

[^4]: **Complementary Studies**

Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. *(Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)*

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Students in the Bachelor of Arts in Family & Consumer Sciences major who wish to satisfy the Complementary Studies Requirement with a coherent group of courses complementary to the major must have the courses approved by an advisor in the major. Consult with a major advisor for assistance.
Bachelor of Arts in Family and Consumer Sciences – Nutrition/Foodservice Systems Management Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 46

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
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<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
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<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
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<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 101 &amp; CHEM 102</td>
<td>Survey of Chemistry or Fundamentals of Food Chemistry: Natural Constituents and Additives and Fundamentals of Food Chemistry: Natural Constituents and Additives Laboratory</td>
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<td>or CHEM 109 and CHEM 110</td>
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<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ³</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>or Written English Communication (A2) Stretch II</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁴</td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<td><strong>Fourth Semester</strong></td>
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<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Three ⁴</td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>CFS 312GW</td>
<td>Families, Individuals, and Environments - GWAR</td>
<td>3</td>
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<td>CFS 325</td>
<td>Transitions in the Family Life Cycle</td>
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<td>CFS 352</td>
<td>Principles of Food Preparation</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁴</td>
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<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<td>CFS 430</td>
<td>Management Dynamics: Life Goals and Decisions</td>
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<td>DFM 353GW</td>
<td>Foodservice Systems Management - GWAR</td>
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<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
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<tr>
<td>Emphasis Elective (8 Units Total): Any CFS/D Department Courses or Another Courses Upon Approval of Advisor</td>
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444
<table>
<thead>
<tr>
<th>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</th>
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<tbody>
<tr>
<td><strong>Seventh Semester</strong></td>
<td>Units 15</td>
</tr>
<tr>
<td>CFS 355 or DFM 253 Nutrition for Wellness or Nutrition in Health and Disease</td>
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<tr>
<td>DFM 458 Management of Quantity Food Purchasing and Production</td>
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<td>Emphasis Elective (8 Units Total): Any CFS/D Department Courses or Another Course Upon Approval of Advisor</td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</table>

| **Eighth Semester** | Units 15 |
| CFS 453 Nutrition in the Life Cycle | 3 |
| CFS 600 Professional Development | 3 |
| MGMT 610 or HTM 560 Human Resource Management or Hospitality Human Resource Management | 3 |
| Emphasis Elective (8 Units Total): Any CFS/D Department Courses or Another Course Upon Approval of Advisor | 3 |
| Complementary Studies or SF State Studies or University Elective | 3 |

| Total Units | 120-121 |

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies**

   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Students in the Bachelor of Arts in Family & Consumer Sciences major who wish to satisfy the Complementary Studies Requirement with a coherent group of courses complementary to the major must have the courses approved by an advisor in the major. Consult with a major advisor for assistance.
Bachelor of Science in Apparel Design and Merchandising

The Apparel Design and Merchandising program creates an educational and experiential foundation for diverse professional careers in the globally interdependent apparel industry. Students explore human behavior, social problems, and environmental concerns, interpreting influences and outcomes through apparel design and merchandising.

Two emphases are offered:

1. Apparel Design
2. Fashion Merchandising.

Students will understand and apply knowledge about the roles and functions of various industry sectors in which textiles and sewn products are developed, produced, marketed, sold, and consumed, including design, construction, sourcing, manufacturing, marketing, and merchandising processes. A common core of classes enables students to develop a consumer and socially conscious approach to the textile and apparel industry and a basic knowledge of the field including career opportunities, terminology, and professional practices as applied to the industry.

Application Filing Period

The Apparel Design and Merchandising program is impacted, which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See the departmental website http://rcsd.sfsu.edu for supplemental program application and exact deadline in January.

Mandatory Advising

The program offers all ADM majors the ability to work with an advisor to prepare a Graduation Plan, an outline of course sequence. Students who wish credits earned at another institution to be accepted in lieu of courses offered for the major at SF State must obtain acceptance from their advisor and the department chair.

Writing Competence

Good writing skills are necessary for success in the major. Second-year written composition (ENG 214 or equivalent) with a grade of C– or better is required to take ADM 360GW, the beginning of the sequence of upper division ADM courses, which fulfills the GWAR requirement.

The major includes 15 units of prerequisite work and 43 units of advanced courses. Within the 43 units, all students take 22 units of core courses and 21 units in one emphasis: apparel design or fashion merchandising. A prescribed sequence of courses must be adhered to as some courses are offered only in the fall or spring semesters. Students should consult course descriptions in this Bulletin for prerequisites. All major courses must be passed with a letter grade of D or better. CR/NC is not allowed.

Apparel Design and Merchandising (B.S.) – 58 units
ADM Prerequisites (15 units)
Select a college level drawing or fashion illustration class 3
ECON 101 Introduction to Microeconomic Analysis 3
ECON 102 Introduction to Macroeconomic Analysis 3
ID 240 Color and Design 3
PSY 200 General Psychology 3

Core Requirements (22 units)
(must be passed with a C– or better; CR/NC is not allowed)
ADM 260 Textiles 3
ADM 265 Introduction to the Fashion Industry 3
ADM 360GW Fashion, Clothing, and Society - GWAR 3
ADM 365 Textile Laboratory 1
ADM 560 Textiles and Apparel in the World Marketplace 3
ADM 561 Culture and Historical Costume 3
ADM 665 Product Development for Apparel 3
CFS 600 Professional Development 3

Emphasis Chosen from Emphases Listed Below (21 units)

Apparel Design Emphasis
ADM 261 Apparel Construction 3
ADM 361 Apparel Design I: Flat Pattern 3
ADM 362 Apparel Design II: Draping 3
ADM 661 Advanced Apparel Design Problems 3
Select nine units from the electives below 9

Fashion Merchandising Emphasis
ADM 369 Fashion Merchandising and Buying 3
ADM 466 Computer Applications in Clothing and Textile Industry 3
ADM 566 Fashion and the Consumer 3
ADM 569 Visual Merchandising and Promotion 3
Select nine units from the electives below, must include three units of MKTG prefixed courses 9

Sample Listing of Electives for Both Emphases
ACCT 100 Introduction to Financial Accounting 3
ACCT 101 Introduction to Managerial Accounting 3
ADM 262 Fashion Illustration (cannot be counted as elective if used as prerequisite) 3
ADM/ID 300 Designers of the 20th/21st Centuries 3
ADM/ID 366 Forecasting Apparel and Interior Design Trends 3
ART 222 Introduction to Textile Art 3
ART 422 Weaving 1 - Beginning 3
ART 424 Surface Design Studio 3
CFS 543 Sustainability in the Textile, Housing, and Food Industries 3
CFS 657 New York Fashion Study Tour 3
CFS 685 Projects in Teaching of Consumer and Family Studies/Dietetics 3
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
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<tr>
<td>Critical Thinking</td>
<td>LD</td>
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<td>A3</td>
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<td>Written English Communication II</td>
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<td>A4</td>
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<td>Physical Science</td>
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<td>Life Science</td>
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<td>B2</td>
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<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
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<tr>
<td>Mathematics/Quantitative Reasoning</td>
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<td>Arts</td>
<td>LD</td>
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<td>C1</td>
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<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
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<tr>
<td>(LLD)</td>
<td></td>
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<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
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<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
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</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>
Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:  
  a. One course in oral communication (same as CSU GE area A1)  
  b. One course in written composition (same as CSU GE area A2)  
  c. One course in critical thinking (same as CSU GE area A3)  
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Apparel Design and Merchandising: Apparel Design Emphasis Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 58

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Major Prerequisite: College-Level Drawing Course (See Art or Design Courses)</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
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<tr>
<td>MATH 110</td>
<td>Business Calculus</td>
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<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>or Written English Communication (A2) Stretch II</td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID 240</td>
<td>Color and Design</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>PSY 200</td>
<td>General Psychology</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<tr>
<td>ADM 260</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>ADM 261</td>
<td>Apparel Construction</td>
<td>3</td>
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<tr>
<td>ADM 360GW</td>
<td>Fashion, Clothing, and Society - GWAR</td>
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<tr>
<td>Major Electives (9 Units Total) – Take One</td>
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<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<tr>
<td>ADM 265</td>
<td>Introduction to the Fashion Industry</td>
<td>3</td>
</tr>
<tr>
<td>ADM 361</td>
<td>Apparel Design I: Flat Pattern</td>
<td>3</td>
</tr>
<tr>
<td>ADM 365</td>
<td>Textile Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>SF State Studies or University Elective – Take One or Two</td>
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<td>4-6</td>
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<tr>
<td><strong>Units</strong></td>
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<td>14-16</td>
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### Seventh Semester

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<tbody>
<tr>
<td>ADM 362</td>
<td>Apparel Design II: Draping</td>
<td>3</td>
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<tr>
<td>ADM 561</td>
<td>Culture and Historical Costume</td>
<td>3</td>
</tr>
<tr>
<td>ADM 665</td>
<td>Product Development for Apparel</td>
<td>3</td>
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</table>

**Major Electives (9 Units Total) – Take One**

**GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)**

<table>
<thead>
<tr>
<th>Units</th>
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### Eighth Semester

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ADM 560</td>
<td>Textiles and Apparel in the World Marketplace</td>
<td>3</td>
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<tr>
<td>ADM 661</td>
<td>Advanced Apparel Design Problems</td>
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</tr>
<tr>
<td>CFS 600</td>
<td>Professional Development</td>
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**Major Electives (9 Units Total) – Take One**

**SF State Studies or University Elective**

<table>
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<tr>
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<table>
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<tr>
<th>Total Units</th>
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<tbody>
<tr>
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</table>

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1. To avoid taking additional units, it is recommended that you meet **LLD** and **SF State Studies** requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. MATH 60 and/or MATH 70 are required prerequisites to MATH 110 unless you score 50 or higher on ELM or have an ELM exemption.
4. **Major Electives**
   - ACCT 100 Introduction to Financial Accounting (3 units)
   - ACCT 101 Introduction to Managerial Accounting (3 units)
   - ADM 262 Fashion Illustration (3 units)
   - ADM 300 Designers of the 20th/21st Centuries (3 units)
   - ADM 366 Forecasting Apparel and Interior Design Trends (3 units)
   - ART 222 Introduction to Textile Art (3 units)
   - ART 422 Weaving I - Beginning (3 units)
   - ART 424 Surface Design Studio (3 units)
   - CFS 543 Sustainability in the Textile, Housing, and Food Industries (3 units)
   - CFS 657 New York Fashion Study Tour (3 units)
   - CFS 685 Projects in Teaching of Consumer and Family Studies/Dietetics (3 units)
   - IBUS 330 International Business and Multicultural Relations (3 units)
   - IBUS 430 Import-Export Management and Small Business Operations (3 units)
   - ISYS 263 Introduction to Information Systems (3 units)
   - MGMT 405 Introduction to Management and Organizational Behavior (3 units)
   - MKTG 431 Principles of Marketing (3 units)
   - MKTG 433 Personal Selling (3 units)
   - MKTG 436 Retail Management (3 units)
   - MKTG 469 Digital Marketing (3 units)
5. CFS 600 serves as major’s capstone experience.
# Bachelor of Science in Apparel Design and Merchandising: Fashion Merchandising Emphasis Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 58

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
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<tr>
<td>Major Prerequisite: College-Level Drawing Course (See Art or Design Courses)</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication (A2)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
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<td>MATH 110</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>ID 240</td>
<td>Color and Design</td>
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<td><strong>Fourth Semester</strong></td>
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<td>PSY 200</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>SF State Studies or University Elective</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>ADM 260</td>
<td>Textiles</td>
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<tr>
<td>ADM 360GW</td>
<td>Fashion, Clothing, and Society - GWAR</td>
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<tr>
<td>Major Electives (9 Units Total) – Take One</td>
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<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
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<tr>
<td>SF State Studies or University Elective</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>ADM 265</td>
<td>Introduction to the Fashion Industry</td>
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<tr>
<td>ADM 365</td>
<td>Textile Laboratory</td>
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<tr>
<td>ADM 369</td>
<td>Fashion Merchandising and Buying</td>
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<tr>
<td>ADM 466</td>
<td>Computer Applications in Clothing and Textile Industry</td>
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<tr>
<td>Major Electives (9 units total) – Select 3 Units of Marketing:</td>
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<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
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</tbody>
</table>
MKTG 433  Personal Selling
MKTG 436  Retail Management
MKTG 469  Digital Marketing
GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)  3

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td>16</td>
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</tbody>
</table>

**Seventh Semester**

ADM 561  Culture and Historical Costume  3
ADM 566  Fashion and the Consumer  3
ADM 665  Product Development for Apparel  3
Major Electives (9 Units Total) – Take One  3
GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)  3

<table>
<thead>
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<th>Units</th>
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<tbody>
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</table>

**Eighth Semester**

ADM 560  Textiles and Apparel in the World Marketplace  3
ADM 569  Visual Merchandising and Promotion  3
CFS 600  Professional Development  3
SF State Studies or University Elective – Take Two  6

<table>
<thead>
<tr>
<th>Units</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

Total Units  120

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. MATH 60 and/or MATH 70 are required prerequisites to MATH 110 unless you score 50 or higher on ELM or have an ELM exemption.
4. Major Electives – Sample List (9 units total)
   - ACCT 100 Introduction to Financial Accounting (3 units)
   - ACCT 101 Introduction to Managerial Accounting (3 units)
   - ADM 262 Fashion Illustration (3 units)
   - ADM 300/ID 300 Designers of the 20th/21st Centuries (3 units)
   - ADM 366/ID 366 Forecasting Apparel and Interior Design Trends (3 units)
   - ART 222 Introduction to Textile Art (3 units)
   - ART 422 Weaving I - Beginning (3 units)
   - ART 424 Surface Design Studio (3 units)
   - CFS 543 Sustainability in the Textile, Housing, and Food Industries (3 units)
   - CFS 657 New York Fashion Study Tour (3 units)
   - CFS 685 Projects in Teaching of Consumer and Family Studies/Dietetics (3 units)
   - IBUS 330 International Business and Multicultural Relations (3 units)
   - IBUS 430 Import-Export Management and Small Business Operations (3 units)
   - ISYS 263 Introduction to Information Systems (3 units)
   - MGMT 354 Starting a Small Business (3 units)
   - MGMT 405 Introduction to Management and Organizational Behavior (3 units)
   - MKTG 431 Principles of Marketing (3 units)
   - MKTG 433 Personal Selling (3 units)
   - MKTG 436 Retail Management (3 units)
   - MKTG 469 Digital Marketing (3 units)
   - Select any ADM course in the alternate emphasis
   - CFS 600 serves as major’s capstone experience.
Bachelor of Science in Dietetics

The Bachelor of Science in Dietetics is an accredited Didactic Program in Dietetics (DPD) and meets the Eligibility Requirements and Accreditation Standards of the Accreditation Council for Education in Nutrition Education of the Academy of Nutrition and Dietetics. The program prepares students for careers in clinical dietetics, foodservice systems management, and nutrition education in hospitals, industry, or government agencies. Most positions require an R.D. (Registered Dietitian). See Certificate in Dietetics section of this bulletin.

Application Filing Period

The dietetics program is impacted, which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application to the Department of Family Interior Nutrition & Apparel (FINA). See departmental website cfds.sfsu.edu (http://cfds.sfsu.edu) for supplemental program application and specific deadline in January.

Mandatory Advising

Dietetics majors should consult the designated DPD director/advisor for planning and evaluation of courses transferred from other institutions and to prepare a Graduation Plan outlining course sequence. Some major classes will require that this plan be presented on the first day of classes. A prescribed sequence of courses must be adhered to as some classes are offered only in the fall or spring semesters and senior-level courses are restricted to graduating seniors. See department office (Burk Hall 329) for information to include in the advising folder. Students should consult the course description in the current Bulletin for prerequisites and corequisites.

Writing Competence:

Good writing skills are necessary for success in the major. Second-year written composition (ENG 214 or equivalent) with a grade of C– or better is required to take DFM 353GW which fulfills the GWAR requirement.

Students will receive a Verification Statement, signed by the DPD Director, on completion of the degree and submission of an official transcript indicating that the degree has been awarded. The Verification Statement is then submitted as part of the dietetic internship application process or to qualify to sit for the Dietetic Technician, Registered (D.T.R.) examination.

Note: To become a Registered Dietitian (R.D.) one must

1. complete the B.S. in Dietetics,
2. complete a Dietetic Internship, and
3. pass the R.D. exam.

To become a Dietetic Technician, Registered (D.T.R.) one must

1. complete the B.S. in Dietetics,
2. complete the D.T.R. eligibility application, and
3. pass the D.T.R. exam.

All courses must be passed with a C– or better. CR/NC is not allowed.

Dietetics (B.S.) – 71 units

Prerequisites (18 units)

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<tr>
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<td>General Microbiology and Public Health</td>
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<td>&amp; BIOL 211</td>
<td>and General Microbiology and Public Health Laboratory</td>
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<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
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<td>DFM 253</td>
<td>Nutrition in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional Requirements (50 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 212</td>
<td>Principles of Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 213</td>
<td>and Principles of Human Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 220</td>
<td>Principles of Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>CFS 453</td>
<td>Nutrition in the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>DFM 350</td>
<td>Advanced Nutrition I</td>
<td>3</td>
</tr>
<tr>
<td>CFS 352</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>DFM 353GW</td>
<td>Foodservice Systems Management - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>DFM 357</td>
<td>Experimental Food Study</td>
<td>3</td>
</tr>
<tr>
<td>DFM 450</td>
<td>Advanced Nutrition II</td>
<td>3</td>
</tr>
<tr>
<td>DFM 451</td>
<td>Community Nutrition and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>DFM 458</td>
<td>Management of Quantity Food Purchasing and Production</td>
<td></td>
</tr>
<tr>
<td>DFM 484</td>
<td>Medical Nutrition Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>DFM 485</td>
<td>Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
<tr>
<td>DFM 655</td>
<td>Nutrition Education and Communication</td>
<td>3</td>
</tr>
<tr>
<td>HTM 560</td>
<td>Hospitality Human Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Electives (3 units)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 326</td>
<td>Disease!</td>
<td></td>
</tr>
<tr>
<td>CFS 356</td>
<td>Foods and World Culture</td>
<td></td>
</tr>
<tr>
<td>CFS 426</td>
<td>Family Crises: Drug Dependency and Eating Disorders</td>
<td></td>
</tr>
<tr>
<td>CFS 543</td>
<td>Sustainability in the Textile, Housing, and Food Industries</td>
<td></td>
</tr>
<tr>
<td>GEOG 427</td>
<td>Agriculture and Food Supply</td>
<td></td>
</tr>
<tr>
<td>H ED 210</td>
<td>Personal and Social Determinants of Health</td>
<td></td>
</tr>
<tr>
<td>H ED 410</td>
<td>Organization and Function of Health Services</td>
<td></td>
</tr>
<tr>
<td>H ED 420</td>
<td>Epidemiology</td>
<td></td>
</tr>
<tr>
<td>HTM 557</td>
<td>Restaurant and Catering Management</td>
<td></td>
</tr>
<tr>
<td>KIN 355</td>
<td>Science, Sport, and Fitness</td>
<td></td>
</tr>
<tr>
<td>NURS 500</td>
<td>Death and Dying in Contemporary Society</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements Met in the Dietetics Major

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are
not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130.
- Area B2 (Life Science) is satisfied upon completion of both BIOL 210 and BIOL 220.
- Area B3 (Laboratory Science) is satisfied upon completion of both CHEM 115 and BIOL 211.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES)           | LD or UD | 3 |

**Global Perspectives (GP)**

- LD or UD 3

**Social Justice (SJ)**

- LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

**First Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 456)

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer, doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Science in Dietetics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 70

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective if Satisfactory Score Earned on Chemistry Placement Exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 210 &amp; BIOL 211</td>
<td>General Microbiology and Public Health and General Microbiology and Public Health Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>PSY 200</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
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<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>3</td>
</tr>
<tr>
<td>DFM 253</td>
<td>Nutrition in Health and Disease</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Select One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 212 &amp; BIOL 213</td>
<td>Principles of Human Physiology and Principles of Human Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CFS 352</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>DFM 353GW</td>
<td>Foodservice Systems Management - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 220</td>
<td>Principles of Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>CFS 453</td>
<td>Nutrition in the Life Cycle</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Dietetics Roadmap

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFM 458</td>
<td>Management of Quantity Food Purchasing and Production</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>2</td>
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</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFM 350</td>
<td>Advanced Nutrition I</td>
<td>3</td>
</tr>
<tr>
<td>DFM 357</td>
<td>Experimental Food Study</td>
<td>3</td>
</tr>
<tr>
<td>DFM 484</td>
<td>Medical Nutrition Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GR, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Major Electives**
   - ACCT 100 Introduction to Financial Accounting (3 units)
   - BIOL 326 Disease! (3 units)
   - CFS 356 Foods and World Culture (3 units)
   - CFS 426 Family Crises: Drug Dependency and Eating Disorders (3 units)
   - CFS 543 Sustainability in the Textile, Housing, and Food Industries (3 units)
   - GEOG 427 Agriculture and Food Supply (4 units)
   - H ED 210 Personal and Social Determinants of Health (3 units)
   - H ED 410 Organization and Function of Health Services (3 units)
   - H ED 420 Epidemiology (3 units)
   - HTM 557 Restaurant and Catering Management (3 units)
   - KIN 355 Science, Sport, and Fitness (3 units)
   - NURS 500 Death and Dying in Contemporary Society (3 units)
Bachelor of Science in Interior Design

The Interior Design curriculum prepares students for a career in interior design and closely related industries. The program is structured using a holistic approach that integrates multiple facets of the industry and which serves to develop broad student skill and professional development. As San Francisco State University is located in close proximity to a dynamic design center and to many local showrooms, the program is able to foster experiential learning experiences through utilization of these resources in addition to our own setting.

Program content includes design elements and principles, design history, materials and systems, contemporary design philosophies and sustainability, materials and systems, advanced design applications, computer design software applications, and portfolio development. Course work incorporates both theory and hands-on approaches to the study of interior design. The program focuses on both residential and commercial design and is structured such that the curriculum builds rigor within upper division courses and culminates in student knowledge and technical skill sets that are essential within the field of interior design. Students earning a Bachelor of Science degree in Interior Design are eligible to sit for the IDEX California Exam immediately upon graduation.

Application Filing Period

Transfer student applications for admission to this major are accepted by the University's Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered.

Mandatory Advising

Interior Design majors must see an advisor to prepare a Graduation Plan which outlines course sequence. Some major classes will require that this plan be presented on the first day of classes. See department office (Burk Hall 329) for information to include in the advising folder. Students who wish credits earned at another institution to be accepted in lieu of courses offered for the major at SF State must obtain acceptance from their advisor and the department chair.

Writing Competence

Good writing skills are necessary for success in the major. Second-year written composition (ENG 214 or equivalent) with a grade of C– or better is required to take ID 340GW, the beginning of the sequence of upper division ID courses, which fulfills the Graduate Writing Assessment Requirement (GWAR).

The major includes six units of prerequisite work and 48 units of additional major courses. A prescribed sequence of courses must be adhered to as some classes are offered only in the fall or spring semesters. Students should check Bulletin descriptions for prerequisites to individual courses.

All major courses (core and elective) must be passed with a letter grade of C– or better. CR/NC is not allowed.

Interior Design (B.S.) — 54 units

Interior Design Prerequisites (6 units)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 240</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 242</td>
<td>Interior Design Graphic Communication I</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Requirements (39 units)

Courses must be passed with a C– or better; CR/NC is not allowed.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 260</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>CFS 600</td>
<td>Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>ID 244</td>
<td>Heritage of Housing and Interior Design (formerly ID 342)</td>
<td>3</td>
</tr>
<tr>
<td>ID 245</td>
<td>Contemporary Design in Housing and Interiors</td>
<td>3</td>
</tr>
<tr>
<td>ID 340GW</td>
<td>Human Dimensions in Housing and Interiors - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ID 343</td>
<td>Housing for People with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ID 345</td>
<td>Interior Design Graphic Communication II</td>
<td>3</td>
</tr>
<tr>
<td>ID 440</td>
<td>The Housing Structure and Its Component Parts</td>
<td>3</td>
</tr>
<tr>
<td>ID 445</td>
<td>Business Practices for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 540</td>
<td>The Materials of Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 640</td>
<td>Interior Design Solutions - Residential</td>
<td>3</td>
</tr>
<tr>
<td>ID 641</td>
<td>Interior Design Solutions - Commercial</td>
<td>3</td>
</tr>
<tr>
<td>ID 645</td>
<td>Advanced Interior Design Solutions</td>
<td>3</td>
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</tbody>
</table>

Electives (9 units)

(must be passed with a C– or better; CR/NC is not allowed)

Select three of the following with approval of advisor:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 569</td>
<td>Visual Merchandising and Promotion</td>
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<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
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<tr>
<td>ART 222</td>
<td>Introduction to Textile Art</td>
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<tr>
<td>ART 260</td>
<td>Photography I</td>
<td>3</td>
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<tr>
<td>CFS 543</td>
<td>Sustainability in the Textile, Housing, and Food Industries</td>
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<td>CFS 685</td>
<td>Projects in Teaching of Consumer and Family Studies/Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>DES 256</td>
<td>Design and Society: Contemporary Design Issues and Applications</td>
<td>3</td>
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<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
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<tr>
<td>ID/ADM 300</td>
<td>Designers of the 20th/21st Centuries</td>
<td>3</td>
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<tr>
<td>ID/ADM 366</td>
<td>Forecasting Apparel and Interior Design Trends</td>
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<tr>
<td>USP/PLSI 580</td>
<td>Housing Policy and Planning</td>
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General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Units</th>
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<tr>
<td>Oral</td>
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<td>A1</td>
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<tr>
<td>Communication</td>
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<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
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<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
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Bachelor of Science in Interior Design

<table>
<thead>
<tr>
<th>Arts or Humanities</th>
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<th>C1 or C2</th>
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<tbody>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: LD</td>
<td>3</td>
<td>D1</td>
<td></td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
Environmental Sustainability (ES) | LD or UD | 3 |
Global Perspectives (GP) | LD or UD | 3 |
Social Justice (SJ) | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:


Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
### Bachelor of Science in Interior Design Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 54

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication (A2) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td>ID 240</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td>ID 242</td>
<td>Interior Design Graphic Communication I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ³</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or SF State Studies or University Elective</td>
<td>3</td>
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<tr>
<td></td>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td></td>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective – Take Two</td>
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<td>6</td>
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<tr>
<td></td>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td>ADM 260</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ID 244</td>
<td>Heritage of Housing and Interior Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ID 343</td>
<td>Housing for People with Special Needs</td>
<td>3</td>
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<tr>
<td></td>
<td>ID 345</td>
<td>Interior Design Graphic Communication II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Units</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td>ID 245</td>
<td>Contemporary Design in Housing and Interiors</td>
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<td></td>
<td>ID 340GW</td>
<td>Human Dimensions in Housing and Interiors - GWAR ³</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ID 445</td>
<td>Business Practices for Interior Design</td>
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<td></td>
<td>Major Elective (9 Units Total) ⁴</td>
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</tr>
<tr>
<td></td>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td></td>
<td></td>
<td>Units</td>
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</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td>ID 440</td>
<td>The Housing Structure and Its Component Parts</td>
<td>3</td>
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</tbody>
</table>

¹ This course must be taken before entering the major.  
² This course must be taken before entering the major.  
³ This course must be taken before entering the major.  
⁴ Major Elective includes courses that may be chosen from any department. The number of units taken must total 9.
<table>
<thead>
<tr>
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<th>Course</th>
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<tr>
<td>540</td>
<td>The Materials of Interior Design</td>
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<tr>
<td>640</td>
<td>Interior Design Solutions - Residential</td>
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<tr>
<td>645</td>
<td>Advanced Interior Design Solutions</td>
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<td>645</td>
<td>Major Elective (9 Units Total)</td>
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<tr>
<td></td>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td><strong>Eighth Semester</strong></td>
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<td>CFS 600</td>
<td>Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>641</td>
<td>Interior Design Solutions - Commercial</td>
<td>3</td>
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<tr>
<td>645</td>
<td>Advanced Interior Design Solutions</td>
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<td>645</td>
<td>Major Elective (9 Units Total)</td>
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<td>SF State Studies or University Elective</td>
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<tr>
<td></td>
<td><strong>Units</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>120-121</strong></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Major Electives**
   - ADM 569 Visual Merchandising and Promotion (3 units)
   - ART 202 Western Art History II (3 units)
   - ART 222 Introduction to Textile Art (3 units)
   - ART 260 Photography I (3 units)
   - CFS 543 Sustainability in the Textile, Housing, and Food Industries (3 units)
   - CFS 685 Projects in Teaching of Consumer and Family Studies/Dietetics (3 units)
   - DES 256 Design and Society Contemporary Design Issues and Applications (3 units)
   - GEOG 455 Geography of Ethnic Communities (3 units)
   - ID 300 Designers of the 20th/21st Centuries (3 units)
   - ID 366 Forecasting Apparel and Interior Design Trends (3 units)
   - USP 580 Housing Policy and Planning (3 units)
Certificate in Dietetics

The Dietetic Internship Program at SF State is part of the Graduate Certificate in Dietetics. Only students who have completed or are near completion of a Didactic Program in Dietetics (DPD) are eligible to apply for this internship and certificate program. A DPD is typically an undergraduate degree in dietetics, although there are other tracks. For more information about DPD and Dietetic Internship programs, go to the Academy of Nutrition and Dietetics (A.N.D.) website at: http://www.eatrightpro.org/resources/career/become-an-rdn-or-dtr

The program provides the knowledge and practice requirements necessary to be eligible to take the Registered Dietitian (R.D.) examination. Interns will be placed in rotations in hospitals, long-term care/skilled nursing facilities, community nutrition, and other health organizations in the Greater San Francisco Bay Area for practical experiences. In addition to the internship portion of the program, interns will be required to take graduate level academic courses in nutrition that will cover the lifespan. The Dietetic Internship Program at SF State is a full-time, 11 month program, from mid-July through early June.

Before being considered for acceptance, the student must first be eligible in accordance with requirements set forth by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (A.N.D.), as well as university requirements as outlined in the Certificate Program section at SF State Graduate and Post-Baccalaureate Application Procedures (p. 117). This same section also includes University program guidelines and procedures to be followed in filing for the award of the certificate when it is completed.

Admission to Program

• Completion of a baccalaureate degree and completion of an approved Didactic Program in Dietetics (DPD) are required prior to admission into the program.
• Refer to the Department of Family Interior Nutrition & Apparel (FINA) website for information about application procedures: http://cfsd.sfsu.edu/content/graduate-degreesprograms.
• Applicants must participate in the Academy of Nutrition and Dietetics (A.N.D.) computer matching process and the Dietetic Internship Centralized Application Process (DICAS). Applicants must meet the posted deadlines and pay the required fees for both of these in order to apply to our program.
• A separate application fee must also be submitted online.
• A committee composed of dietetics faculty and other members will review the applications based on established criteria.
• Applicants will be notified by D&D Digital if they were matched to our program and if matched, must accept the match within the published time frame to be guaranteed their spot. Any classes that still must be completed for the baccalaureate degree or completion of the DPD must be completed with a minimum of a "C" grade prior to the program starting.
• Matched applicants must then apply to the University via CSUMentor. They will enroll as matriculated post-baccalaureate students in the unclassified status through the College of Extended Learning (CEL).
• Admission to the certificate program does not guarantee admittance into the M.A. program.

Criteria for Selection

• Applicants must meet all deadlines for submitting applications to D&D Digital, DICAS as well as to the program. Late and incomplete applications will not be considered.
• All DPD courses are to be completed with a grade of C- or better. A minimum overall GPA of 2.7 and a DPD GPA of 3.0 is required. DPD GPA, as well as overall GPA and Science GPA, will be evaluated. Admitted applicants generally have much higher GPAs than the minimum requirement.
• Work and/or volunteer experience, personal statement, letters of recommendation, and resume will be evaluated. Only applicants being considered for admission will receive a request for a phone interview.
• Preference may be given to SF State DPD graduates whose qualifications are competitive with other applicants.
• Admission to the program is competitive and a strong DPD GPA and work/volunteer experience in the field of dietetics are important criteria when applications are being reviewed.

SF State is committed to policies of equal opportunity and nondiscrimination on the basis of race, national origin, gender or age.

Program Description

Each cohort class consists of 14 interns. Interns are required to take six units of academic dietetic internship preparation coursework in the summer, which will start in July. From mid-August to early June, interns will take classes on campus one day a week, and be in internship supervised practice rotations four days a week. No part-time enrollment is allowed.

Supervised practice experiences are completed under the direction of a dietitian or foodservice manager, or other qualified professional in a facility or program serving children, adults, and/or older adults, or the general population in a healthcare or community, non-profit, or business setting. The internship is based on specific experiences, competencies, and required hours set forth by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (A.N.D.). A total of 1,200 practice hours is required in the internship in order to meet these requirements. Summer R3, Fall, and Spring semester enrollment are required.

Rotations will generally include the following:

• 16–18 weeks in an acute care clinical hospital
• 5–8 weeks in a long-term care/skilled nursing facility, outpatient, or another clinical setting
• 5–6 weeks in a foodservice systems management rotation
• 3–7 weeks in a community nutrition or public health organization
• 3 weeks in an elective

The array of clinical, community, and foodservice rotations will allow the intern to have a variety of experiences in dietetics, with a concentration in medical nutrition therapy. Interns will typically be given two weeks off during December/January, and one week off for Spring Break. Since this is an intensive program, interns should not expect to hold outside jobs or have other significant time commitments while enrolled in the program.
Dietetics, Certificate – 24 units

Required Courses

- DFM 751 Seminar in Nutritional Assessment Across the Lifespan 3
- DFM 755 Seminar in Human Nutrition and Metabolism 3
- DFM 758 Seminar in Foodservice and Nutrition Program Management 3
- DFM 785 Seminar in Medical Nutrition Therapy 3
- DFM 881 Internship in Dietetics (6 units taken twice for a total of 12 units)

Master of Arts in Family and Consumer Sciences

The Master of Arts program in Family & Consumer Sciences uses a multidisciplinary approach to student inquiry within a chosen field. The program is designed to assist students in navigating through the process utilizing both theory and practice. It aims to inspire students to reach their full potential through identification of the most current and compelling issues within the Family & Consumer Science disciplines noted below and to structure a body of research that seeks to ameliorate the issues while addressing quality of life for individuals, families, and communities.

- Apparel Design & Merchandising
- Interior Design
- Dietetics
- Family and Consumer Sciences

Student understanding of trends and issues in these areas provide the roadmap for the development of a culminating experience which illustrates identification of issues and problem-solving methodologies. Students have the opportunity to structure their degree around their specific interests within the emphasis areas noted above and also with other programs across campus. The M.A. degree also prepares one for further graduate study.

Admission to Program

Applicants must hold a baccalaureate degree and a 3.0 GPA with a major in family and consumer sciences, or one of its specializations (apparel, child/family, interior design, nutrition/dietetics). Those without this degree must complete thirty units of prerequisites course work in consumer and family studies/dietetics approved by an advisor and the department chair.

Within these 30 units:

- 3 units must be from outside the student’s area of specialization
- 3 units must include CFS 312GW
- a maximum of 6 units may be counted for past professional experience in an area of specialization.

Written English Proficiency Requirement

Level One

The GRE (writing component) must be completed prior to application and scores are required to be submitted as part of the application. Admitted students with scores below 4.0 will be conditionally classified and must pass a writing intensive class within the first two semesters in the program to satisfy the university first level writing proficiency requirement.

Level Two

Level Two is demonstrated by completion of CFS 895 or CFS 898.

For the Culminating Experience (CE) and SF State Continuous Enrollment Policy students should view SF State Graduate Division policies at http://grad.sfsu.edu/. The Proposal for Culminating Experience, Human Subjects Protocol, and Advancement to Candidacy are due the semester prior to enrolling in CFS 895/CFS 898. Students have one semester grace period after enrolling in CFS 895/CFS 898 to complete their CE. If it is not completed during the semester following enrollment, they must then continually enroll in HSS 499 through the College of Extended Learning until CFS 895/CFS 898 is completed.

Seventy percent of a student’s Advancement to Candidacy (ATC) must be at the 700 level or above. Students must make continuous progress toward the completion of the degree. See Graduate Division website for details on policies, procedures and required forms at http://grad.sfsu.edu/.

Family and Consumer Sciences (M.A.) – Minimum 30 units

Program Requirements (9 units)

- COUN 794 Seminar in Research 3
- or ISED 797 Seminar in Educational Research
- CFS 700 Seminar: Trends and Issues 3
- CFS 710 Family and Consumer Sciences Research Applications 3

Graduate/Upper Division Courses (15 units)

Courses in family and consumer sciences selected upon approval of graduate major advisor

- CFS 728 Children and Families with Violence, Abuse, and Neglect 3
- CFS 743 Sustainability in the Textile, Housing, and Food Industries 3
- CFS 761 Advanced Apparel Design Problems 3
- CFS 769 Visual Merchandising and Promotion 3
- CFS 863 Seminar in Social Entrepreneurship 3
- CFS 881 Internship 3
- CFS 891 Directed Readings in Family and Consumer Sciences/Dietetics 3
- CFS 899 Independent Study 2-4
- DFM 751 Seminar in Nutritional Assessment Across the Lifespan 3
- DFM 755 Seminar in Human Nutrition and Metabolism 3
- DFM 758 Seminar in Foodservice and Nutrition Program Management 3
- DFM 785 Seminar in Medical Nutrition Therapy 3
- DFM 881 Internship in Dietetics (limit 6 units) 6
- CFS 898 Master’s Thesis 3
- or CFS 895 Field Study
Electives (6 units)
Selected upon approval of graduate major advisor.
COUNSELING

College of Health and Social Sciences
Dean: Alvin Alvarez

Department of Counseling
Burk Hall 524
Phone: (415) 338–2005
Fax: (415) 338–0594
Email: counsel@sfsu.edu
Website: counseling.sfsu.edu (http://counseling.sfsu.edu)
Chair: Graciela Orozco

Program Scope
Culturally competent, psychologically-minded, and emotionally grounded Professionally Licensed Counselors, Credentialed School Counselors, Clinical Rehabilitation and Mental Health Counselors, Career Counselors, College Counselors, and Gerontological Counselors are needed in the field of human services. The department’s six graduate programs, its undergraduate minor in counseling, and our partnerships with community agencies collaboratively prepare students who are well-grounded to help meet the growing demands in the field. Our department’s faculty and the curriculum we have designed aspire to achieve excellence in three core areas:

- Multicultural Competence,
- Community Partnerships, and
- Action Research.

Our faculty are locally, nationally, and internationally recognized in their scholarly contributions to multicultural competence in counseling, social justice, and health equity. They work to provide a solid learning environment for students with disabilities, students from diverse ethnic and sexual orientations, as well as students from a range of socioeconomic groups.

By the end of graduate studies, our students should embody multicultural competence, have grown deep connections to the local community, and embrace best practices in counseling. Combined, our students provide thousands of hours per year of counseling services to San Francisco Bay Area communities. They are in schools, community mental health and rehabilitation agencies, colleges and universities, careers centers, and hospitals, to name a few. Our students reflect the diversity of California and especially the San Francisco Bay Area.

Graduates of the department will have the necessary preparation to be eligible to sit for the National Board of Certified Counselors examination, known as the National Counselor Examination®. Clinical Rehabilitation and Mental Health counseling graduates to be eligible to sit for the National Certified Rehabilitation Counselor (CRC) exam. Graduates of the program will also be license eligible in the state of California for either a Licensed Professional Clinical Counselor (for all degrees) or a Marriage & Family Therapist (MFCC degree program only).

We prepare School counseling students for the PPS Credential (School Counseling Program).

The Department of Counseling offers three master’s degrees:

- Master of Science in Counseling — There are four different specializations—Career, College, Gerontological, and School. School counseling students are eligible for the State of California Pupil Personnel Services Credential with a specialization in School Counseling (PK–12). Graduates will have achieved most of the education requirements for the Licensed Professional Clinical Counselor license in California.

  - Master of Science in Counseling: Concentration in Marriage, Family, and Child Counseling. Students are eligible to sit for the State of California examination for the Marriage and Family Therapist (MFT) license upon completion of all the Board of Behavioral Sciences requirements. Graduates will also have achieved most of the education requirements for the Licensed Professional Clinical Counselor license in California.

  - Master of Science in Clinical Rehabilitation and Mental Health Counseling. Students are eligible to take the National Certified Rehabilitation Counselor examination. Graduates will have achieved most of the education requirements for the Licensed Professional Clinical Counselor license in California.

Students specialize in one area of counseling. For example, a student whose objective is an MFT license will follow the curriculum for the M.S. in Counseling: Concentration in MFCC. In addition, students may also apply to take an emphasis in another counseling area, such as school, career, college, gerontological, or rehabilitation counseling. If accepted, additional courses and fieldwork will be required.

The department also offers an undergraduate minor in counseling. The minor is designed for students who want training as a paraprofessional or counselor aide; to supplement majors that have some involvement with the helping professions; or for students considering graduate study in human services.

Accreditation
All of the counseling department programs are accredited. The programs in School, College, Career, Gerontological, and Marriage and Family Counseling are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) through 2018. The Clinical Rehabilitation and Mental Health Counseling program is currently accredited by the Council on Rehabilitation Education (CORE) *NOTE: CORE and the Council for Accreditation of Counseling and Related Educational Programs (CACREP) have signed a Plan of Merger Agreement, and beginning July 1, 2017, CACREP will carry on the mission of both programs. Students who begin the programs fall 2016 and thereafter will graduate from a CACREP accredited program. The Pupil Personnel Services Credential program in School Counseling is accredited by the California Commission on Teacher Credentialing (CTC).

Career Outlook
Students graduating with a master’s degree in counseling are eligible for a variety of career options. The profession of counseling involves counselors assisting clients to learn about themselves and learn to help themselves within their respective environments. The role of the professional counselor calls for skills, attitudes, and knowledge needed to help people make personal life decisions.

Career Counselors work in high school, college and university career centers, student support services and advising offices. Some graduates use this training to establish private career counseling and consultation practices while others enter career development centers in private industry and public agencies. Many students combine this training with another area of counseling. Program Coordinator: Rebecca Toporek, Ph.D.; email: rtoporek@sfsu.edu.
College Counselors may work in two- and four-year colleges and universities providing academic counseling in a range of college student personnel positions in programs such as student retention, EOP or EOPS, financial aid, CalWorks, multicultural student services, residential life, college outreach, transfer services, general counseling and other student services. Program Coordinator: Alison Cerezio, Ph.D.; email: acerezio@sfsu.edu.

School Counselors upon graduation and after passing the California CBEST examination receive their State of California Pupil Personnel Services Credential with a specialization in School Counseling (PK–12) and work in public and private school settings. They do personal and academic counseling and work in an integrated services team approach with other mental health and education professionals. Program Coordinator: Patricia Van Velsor, Ph.D.; email: pvanvels@sfsu.edu.

Gerontological Counselors work with older adults and their families performing case management and counseling in consultation with family members. Settings may include senior centers, residential homes, social service agencies, and hospices. Gerontological counselors benefit from having an emphasis in Clinical Rehabilitation and Mental Health Counseling. Program Coordinator: TBD.

MFT Counselors work with mild, moderate, and severe mental health populations in the context of their work settings. In addition to working in the public sector, MFTs may also open private practices upon receiving their license. Program Coordinator: and Karl Kwan, Ph.D.; email: kwan@sfsu.edu.

Clinical Rehabilitation and Mental Health Counselors provide counseling, advocacy and case management for persons with physical, psychological, neurological, cognitive and sensory related health and behavioral health impairments, focusing on personal and environmental assets and barriers, community participation and access, and prevention and wellness. Clinical Rehabilitation and Mental Health Counselors are trained in biopsychosocial orientation and work with an array of allied health and mental health professionals to assure a continuum of care that promotes optimal functioning and quality of life. Working with clients that span a broad age-range from late adolescence to older adulthood, clinical rehabilitation and mental health counselors work in diverse counseling contexts including public and private non-profit rehabilitation and behavioral health agencies, Veteran’s Administration, K–12 and higher education settings, wellness centers, school-to-work transition programs, substance abuse agencies, county mental health agencies, state departments for those with intellectual disabilities, disability management programs, private, insurance-based rehabilitation, and private practice. Program Coordinator: Julie Chronister Ph.D., CRC; jchronis@sfsu.edu.

Professors
Alvarez, Lee, Orozco, Toporek

Associate Professors
Chronister, Kwan, Van Velsor, Williams

Assistant Professors
Cerezio, Fitzgerald, O’Shaughnessy

Minor in Counseling
Undergraduate Minor Advisor: Robert Williams Pd.D. rwill@sfsu.edu.

The Minor in Counseling program and related elective courses emphasizes student services in relation to a college campus. COUN 690 provides a broad overview of the entire field of counseling and COUN 691 exposes students to the department’s core value of multicultural human relations. The peer counseling courses (COUN 605 and COUN 606) offer an opportunity to actively engage the SF State student community on issues such as substance abuse and sexual abuse or assault. In addition, students are trained in basic counseling skills that necessarily include a great deal of self-awareness and self-examination. Furthermore, the department offers several elective courses related to the minor.

The Field of Counseling
Students are introduced to the counseling profession through an overview of the role and functions of counselors in career, college, marriage, family and child, school, mental health, and rehabilitation settings; historical perspective; professional identification; ethical considerations; and self-awareness.

Psychological Understandings
Students receive a general introduction to the field of counseling and psychological dynamics.

Decision Making
Students examine how individuals make choices and how decisions are made through self-assessment and evaluation by others. The study includes ethnic and cultural differences in the decision-making process.

Skills Training
The development of basic skills that include attending, responding, interpretation, and decision making. The training includes practicum experience in interviewing skills.

Multicultural Human Relations
This group of courses equips students with the intrapersonal and interpersonal insights, socio-historical knowledge and communication competencies necessary to develop and enhance their multicultural relationships.

The counseling minor requires that students take six courses (18 units) and six units in electives, with the consent of the undergraduate minor advisor. Courses used to fulfill a major requirement may be also counted to fulfill the minor requirements.

Counseling, Minor — 24 units

Required Core Courses (18 units)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PSY 200</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>S W 410 or PSY 431</td>
<td>Human Development and the Social Services Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>COUN 605</td>
<td>Peer Counseling Skills Seminar</td>
<td>3</td>
</tr>
<tr>
<td>COUN 606</td>
<td>Introduction to Peer Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>COUN 690</td>
<td>Field of Counseling I</td>
<td>3</td>
</tr>
<tr>
<td>COUN 691</td>
<td>Multicultural Human Relations</td>
<td>3</td>
</tr>
</tbody>
</table>
Electives (6 units)
Chosen in consultation with the department’s undergraduate minor advisor

Masters
• Master of Science in Counseling (p. 469)
• Master of Science in Counseling: Concentration in Marriage, Family, and Child Counseling (p. 471)
• Master of Science in Clinical Mental Health Counseling (p. 468)

Certificates
• Certificate in Counseling Deaf Persons (p. 468)
  (Program not accepting students pending review for discontinuance)
• Certificate in Counseling Deafened and Hard of Hearing Persons (p. 468)
  (Program not accepting students pending review for discontinuance)
• Certificate in Rehabilitation Counseling (p. 468)
  (Program not accepting students pending review for discontinuance)

Credential
• Pupil Personnel Services Credential: School Counseling Designation (p. 472)

Certificate in Counseling Deaf Persons
(Program not accepting students pending review for discontinuance)

Certificate in Counseling Deafened and Hard of Hearing Persons
(Program not accepting students pending review for discontinuance)

Certificate in Rehabilitation Counseling
(Program not accepting students pending review for discontinuance)

Master of Science in Clinical Mental Health Counseling

The Clinical Mental Health Counseling (CMHC) program prepares counselors to address the wide array of intersecting psychosocial, cultural, vocational and systemic circumstances that are barriers to the health, wellness, and quality of life of those served. Clinical Mental Health Counseling students are trained to work with some of the most vulnerable, marginalized communities who experience disabling health and behavioral health conditions that are often complicated by histories of poverty, trauma, homelessness, substance abuse, oppression and criminal justice involvement. Students entering our program are social-justice oriented, embrace difference and inclusion, exhibit a desire for ongoing self-examination, and are expected to continually work towards cultural and disability competency.

Trained through a biopsychosocial and pluralistic lens, students are oriented towards conceptualizing clients’ multiple, intersecting identities, contexts, vulnerabilities, and assets, using contemporary classification systems relevant to today’s practicing counselor. Students learn and apply a broad spectrum of traditional and post-modern theories and modalities, including the Mental Health Recovery Model, and are expected to integrate health promotion, wellness, and evidence-based practices into their work. Our program strives to graduate students who are not only therapeutically skilled and culturally competent counselors, advocates and clinical case managers, but who also understand and challenge the political, sociocultural, and systemic factors that negatively impact the health and well-being of our clients, their families, and their communities.

Students graduating from the CRMH program work in a diverse range of community-based health and behavioral health organizations, agencies serving particular populations (e.g., LGBTQ, Transition Age Youth, College Students, Older Adults), or persons with specific conditions or circumstances (e.g., substance abuse, homelessness, HIV/AIDS, and other health or behavioral health conditions), county behavioral health agencies, hospital-affiliated programs, educational settings, state and federal institutions, and private practice. Graduates meet all the academic and fieldwork requirements for the California Professional Clinical Counselor License (LPCC) as set forth in Section 4999.33 (http://leginfo.legislature.ca.gov/faces/codes_displayText.xhtml?lawCode=BPC&division=2.3&title=16&part= chapter=16&article=3.html) of the Business and Professional Code for Licensed Professional Clinical Counselors. To become an LPCC, graduates must obtain 3,000 post-graduate hours under a qualified supervisor, and pass the National Clinical Mental Health Counselor Examination (NCMHCE) and the California Law and Ethics Exam. Please refer to the CALPCC (http://calpcc.org) for more information. Clinical Mental Health Counseling graduates are also positioned to become a Nationally Certified Counselor (NCC) (http://nbcc.org) and a Certified Rehabilitation Counselor (CRC) (https://www.crccertification.com).

Graduate Programs in Counseling

General Information
At least 60 units of approved graduate work are required for the Master of Science degrees. All students go through a basic core sequence of academic courses including four semesters of supervised counseling practicum and internship. Students select electives according to their area of specialization. Two different academic year field placements are required. The department works collaboratively with over 150 community agencies that provide service and training opportunities for our students. These agencies are carefully screened to meet our standards. Fieldwork placements are viewed as an integral part of the training of prospective counselors.

Once admitted to the program, students may petition the department’s program coordinator and chair for up to 12 units of appropriate post-baccalaureate degree work taken in other institutions within seven years from the date students plan to graduate. Courses taken for another degree or credential may not be counted toward the master’s degree. Courses taken at other institutions after admission to the graduate program may not be counted toward the master’s degree. Refer to Graduate Admissions and Graduate Studies, Transfer Credit from Other Institutions (p. 118) for more information.

It may be possible to complete the M.S. program either as a full-time student or as a part-time student taking daytime, late afternoon, and evening classes. Students must, however, expect that their personal and
work schedules will need to be sufficiently flexible to accommodate fieldwork requirements and department class schedules.

Admission to Program
Applicants are admitted as conditionally classified graduate students in the fall semester only - there are no spring admits. Admission to the department involves the following procedures:

1. Complete the GRE General Test\(^1\), paying particular attention to the Written Analytical Section of the GRE. See note below.
2. Complete two separate applications:
   a. Department of Counseling program application available on our website (http://counseling.sfsu.edu) and
   b. San Francisco State University Graduate Studies online application available on the Division of Graduate Studies website (http://grad.sfsu.edu).
3. Submit the counseling program application to the Department of Counseling by January 15.
4. Submit the SF State Graduate Studies online application by January 15.

\(^1\) Please note: Your GRE scores will not determine our recommendation to either admit or deny you admission to our program. We will review the Analytical Writing score so that we may determine your writing needs before you enter the program. Those who do not meet the minimum writing expectation, that is a 4.0 on the Analytical Writing Section of the GRE General Test, upon admission will be required to take a writing course, HSS 700. Refer to www.ets.org/gre (http://www.ets.org/gre) for all GRE and GRE test related questions.

Prerequisites
Prior to enrolling for classes, an applicant must successfully complete three undergraduate prerequisites with a grade of C or better: theories of personality/counseling, development through the lifespan, and a psychopathology course. A minimum undergraduate GPA of 3.0 in the last 60 units is required for admission to the program. Paid or volunteer experience working with people is an important factor for admission. Selection of students is based on academic as well as personal background.

COUN 690 is a prerequisite for all students except those specializing exclusively in Clinical Mental Health Counseling. This course should be taken prior to admission to the program or can be taken the first semester in attendance. Students who do not earn a grade of B minus (B−) or better in the repeated course will not be considered for classified status.

Access to Counseling Courses Prior to Admission
Applicants may take, on a space available basis, and by permission of the instructor, any of the following courses through Open University:

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<thead>
<tr>
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<tbody>
<tr>
<td>COUN 690</td>
<td>Field of Counseling I</td>
<td>3</td>
</tr>
<tr>
<td>COUN 700</td>
<td>Theories of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>COUN 702</td>
<td>Developmental Foundations for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 703</td>
<td>Psychological Foundations for Counselors</td>
<td>3</td>
</tr>
</tbody>
</table>

Students shall not take any courses numbered 700 or above and count them toward their SF State bachelor’s degree; however, SF State students may indicate on their graduation application that they wish to have these courses applied to their graduate work if taken in the final semester before graduation. Completion of these courses does not guarantee admission into the program.

Written English Proficiency Requirement
Level One
All applicants must successfully demonstrate writing proficiency with a score of 4.0 or better on the Analytic Writing section of the Graduate Record Examination. This must be taken prior to applying to the program. The score must be submitted in your application package. Those who do not meet the minimum writing expectation upon admission will be required to take a writing course, usually at an additional cost.

Level Two
Satisfied by demonstration of English competency on the culminating experience paper for COUN 892.

Clinical Proficiency Requirement
Students must earn a grade of B or better in the following courses:

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<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>COUN 705</td>
<td>Counseling Practicum</td>
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<tr>
<td>COUN 706</td>
<td>Counseling Skills and Process</td>
<td>3</td>
</tr>
<tr>
<td>COUN 736</td>
<td>Advanced Counseling Process</td>
<td>3</td>
</tr>
<tr>
<td>COUN 890</td>
<td>Integrative Counseling and Internship</td>
<td>3</td>
</tr>
<tr>
<td>COUN 891</td>
<td>Case Studies and Internship Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Clinical Mental Health Counseling—Minimum 60 units

Required Courses (60 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 700</td>
<td>Theories of Counseling and Psychotherapy</td>
<td>3</td>
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<tr>
<td>COUN 702</td>
<td>Developmental Foundations for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 703</td>
<td>Psychological Foundations for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 704</td>
<td>Psychosocial Aspects of Disability and Chronic Illness</td>
<td>3</td>
</tr>
<tr>
<td>COUN 705</td>
<td>Counseling Practicum</td>
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<td>Counseling Skills and Process</td>
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<td>COUN 715</td>
<td>Assessment in Counseling</td>
<td>3</td>
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<td>COUN 736</td>
<td>Advanced Counseling Process</td>
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<tr>
<td>COUN 720</td>
<td>Career Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 737</td>
<td>Psychopharmacology in Counseling</td>
<td>3</td>
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<tr>
<td>COUN 738</td>
<td>Addictions</td>
<td>3</td>
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<tr>
<td>COUN 741</td>
<td>Crisis Counseling for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 794</td>
<td>Seminar in Research</td>
<td>3</td>
</tr>
<tr>
<td>COUN 811</td>
<td>Group Counseling Process</td>
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</tr>
<tr>
<td>COUN 833</td>
<td>Social and Cultural Foundations in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 857</td>
<td>Law and Ethics for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 870</td>
<td>Case Management and Special Topics in Rehabilitation Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 890</td>
<td>Integrative Counseling and Internship</td>
<td>3</td>
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<td>Case Studies and Internship Seminar</td>
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<td>COUN 892</td>
<td>Culminating Experience for Counselors</td>
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Master of Science in Counseling
The M.S. in Counseling incorporates four specializations and/or emphases: career, college, school, and gerontology. The scope of this
degree allows students the flexibility to focus their attention on specific areas of interest. The student combines the core sequence of classes with their specialization or emphasis. Counselors will be able to function in a wide variety of community agencies and work with individuals of all ages. The curriculum meets most of the educational requirements to be eligible for the Licensed Professional Clinical Counselor license.

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<td>Counseling Practicum</td>
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<td>Counseling Skills and Process</td>
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</tr>
</tbody>
</table>
COUN 736 Advanced Counseling Process 3
COUN 890 Integrative Counseling and Internship 3
COUN 891 Case Studies and Internship Seminar 3

Counseling (M.S.) – 60 units

Core Curriculum (48 units)
COUN 700 Theories of Counseling and Psychotherapy 3
COUN 702 Developmental Foundations for Counselors 3
COUN 703 Psychological Foundations for Counselors 3
COUN 705 Counseling Practicum 3
COUN 706 Counseling Skills and Process 3
COUN 715 Assessment in Counseling 3
COUN 720 Career Counseling 3
COUN 736 Advanced Counseling Process 3
COUN 741 Crisis Counseling for Counselors 3
COUN 794 Seminar in Research 3
COUN 811 Group Counseling Process 3
COUN 833 Social and Cultural Foundations in Counseling 3
COUN 857 Law and Ethics for Counselors 3
COUN 890 Integrative Counseling and Internship 3
COUN 891 Case Studies and Internship Seminar 3
COUN 892 Culminating Experience for Counselors 3

Area of Emphasis (12 units)

Career Counseling
COUN 721 Applied Career Counseling 3
COUN 727 Advanced Career Counseling 3
COUN 738 Addictions 3
COUN 858 Couple and Family Counseling I 3

College Counseling
COUN 738 Addictions 3
COUN 792 Seminar for Counselors in Student Personnel Services 3
COUN 793 Organization and Administration of Student Services in Higher Education 3
COUN 858 Couple and Family Counseling I 3

Gerontological Counseling
COUN 704 Psychosocial Aspects of Disability and Chronic Illness 3
COUN 738 Addictions 3
COUN 766 3
COUN 820 Counseling the Older Adult 3

School Counseling
COUN 716 Professional Seminar I - Structural Elements in School Counseling 3
COUN 717 Professional Seminar II - Functional Elements in School Counseling 3
COUN 718 Professional Seminar III - Professional Issues in School Counseling 3
COUN 738 Addictions 3
or COUN 858 Couple and Family Counseling I

Master of Science in Counseling: Concentration in Marriage, Family, and Child Counseling

The Master of Science in Counseling: Concentration in Marriage, Family, and Child Counseling provides the student with a degree that can lead to practice as a licensed marriage and family therapist (MFT). The MFT counselor meets with individuals, groups, and families that are in need of assistance in working through personal issues. MFT counselors work in a large variety of public and private community agencies, schools, hospitals, and other settings, including private practice. The MFT curriculum meets all of the educational requirements, except the psychopharmacology course, to be eligible for licensure in California upon graduation. The MFT curriculum meets most of the educational requirements to be eligible for the Licensed Professional Clinical Counselor License.

Graduate Programs in Counseling

General Information
At least 60 units of approved graduate work are required for the Master of Science degrees. All students go through a basic core sequence of academic courses including four semesters of supervised counseling practicum and internship. Students select electives according to their area of specialization. Two different academic year field placements are required. The department works collaboratively with over 150 community agencies that provide service and training opportunities for our students. These agencies are carefully screened to meet our standards. Fieldwork placements are viewed as an integral part of the training of prospective counselors.

Once admitted to the program, students may petition the department’s program coordinator and chair for up to 12 units of appropriate post-baccalaureate degree work taken in other institutions within seven years from the date students plan to graduate. Courses taken for another degree or credential may not be counted toward the master’s degree. Courses taken at other institutions after admission to the graduate program may not be counted toward the master’s degree. Refer to Graduate Admissions and Graduate Studies, Transfer Credit from Other Institutions (p. 118) for more information.

It may be possible to complete the M.S. program either as a full-time student or as a part-time student taking daytime, late afternoon, and evening classes. Students must, however, expect that their personal and work schedules will need to be sufficiently flexible to accommodate fieldwork requirements and department class schedules.

Admission to Program
Applicants are admitted as conditionally classified graduate students in the fall semester only - there are no spring admits. Admission to the department involves the following procedures:

1. Complete the GRE General Test, paying particular attention to the Written Analytical Section of the GRE. See note below.
2. Complete two separate applications:
   a. Department of Counseling program application available on our website (http://counseling.sfsu.edu) and
   b. San Francisco State University Graduate Studies online application available on the Division of Graduate Studies website (http://grad.sfsu.edu).
3. Submit the counseling program application to the Department of Counseling by January 15.

4. Submit the SF State Graduate Studies online application by January 15.

1 Please note: Your GRE scores will not determine our recommendation to either admit or deny you admission to our program. We will review the Analytical Writing score so that we may determine your writing needs before you enter the program. Those who do not meet the minimum writing expectation, that is a 4.0 on the Analytical Writing Section of the GRE General Test, upon admission will be required to take a writing course, HSS 700. Refer to www.ets.org/gre (http://www.ets.org/gre) for all GRE and GRE test related questions.

Prerequisites
Prior to enrolling for classes, an applicant must successfully complete three undergraduate prerequisites with a grade of C or better: theories of personality/counseling, development through the lifespan, and a psychopathology course. A minimum undergraduate GPA of 3.0 in the last 60 units is required for admission to the program. Paid or volunteer experience working with people is an important factor for admission. Selection of students is based on academic as well as personal background.

COUN 690 is a prerequisite for all students except those specializing exclusively in Clinical Mental Health Counseling. This course should be taken prior to admission into the program or can be taken the first semester in attendance. Students who do not earn a grade of B minus (B−) or better in the repeated course will not be considered for classified status.

Access to Counseling Courses Prior to Admission
Applicants may take, on a space available basis, and by permission of the instructor, any of the following courses through Open University:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 690</td>
<td>Field of Counseling I</td>
<td>3</td>
</tr>
<tr>
<td>COUN 700</td>
<td>Theories of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>COUN 702</td>
<td>Developmental Foundations for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 703</td>
<td>Psychological Foundations for Counselors</td>
<td>3</td>
</tr>
</tbody>
</table>

Students shall not take any courses numbered 700 or above and count them toward their SF State bachelor’s degree; however, SF State students may indicate on their graduation application that they wish to have these courses applied to their graduate work if taken in the final semester before graduation. Completion of these courses does not guarantee admission into the program.

Written English Proficiency Requirement
Level One
All applicants must successfully demonstrate writing proficiency with a score of 4.0 or better on the Analytic Writing section of the Graduate Record Examination. This must be taken prior to applying to the program. The score must be submitted in your application package. Those who do not meet the minimum writing expectation upon admission will be required to take a writing course, usually at an additional cost.

Level Two
Satisfied by demonstration of English competency on the culminating experience paper for COUN 892.

Clinical Proficiency Requirement
Students must earn a grade of B or better in the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 705</td>
<td>Counseling Practicum</td>
<td>3</td>
</tr>
<tr>
<td>COUN 706</td>
<td>Counseling Skills and Process</td>
<td>3</td>
</tr>
<tr>
<td>COUN 736</td>
<td>Advanced Counseling Process</td>
<td>3</td>
</tr>
<tr>
<td>COUN 890</td>
<td>Integrative Counseling and Internship</td>
<td>3</td>
</tr>
<tr>
<td>COUN 891</td>
<td>Case Studies and Internship Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Counseling (M.S.) Concentration in Marriage, Family, and Child Counseling — Minimum 60 units

Required Courses (60 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 700</td>
<td>Theories of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>COUN 702</td>
<td>Developmental Foundations for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 703</td>
<td>Psychological Foundations for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 715</td>
<td>Assessment in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 720</td>
<td>Career Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 736</td>
<td>Advanced Counseling Process</td>
<td>3</td>
</tr>
<tr>
<td>COUN 738</td>
<td>Addictions</td>
<td>3</td>
</tr>
<tr>
<td>COUN 794</td>
<td>Seminar in Research</td>
<td>3</td>
</tr>
<tr>
<td>COUN 811</td>
<td>Group Counseling Process</td>
<td>3</td>
</tr>
<tr>
<td>COUN 827</td>
<td>The Consultation Process</td>
<td>1</td>
</tr>
<tr>
<td>COUN 833</td>
<td>Social and Cultural Foundations in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 857</td>
<td>Law and Ethics for Counselors</td>
<td>3</td>
</tr>
<tr>
<td>COUN 858</td>
<td>Couple and Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 859</td>
<td>Counseling Aspects of Sexuality</td>
<td>2</td>
</tr>
<tr>
<td>COUN 860</td>
<td>Couple and Family Counseling II</td>
<td>3</td>
</tr>
<tr>
<td>COUN 861</td>
<td>Seminar on Child Treatment</td>
<td>3</td>
</tr>
<tr>
<td>COUN 890</td>
<td>Integrative Counseling and Internship</td>
<td>3</td>
</tr>
<tr>
<td>COUN 891</td>
<td>Case Studies and Internship Seminar</td>
<td>3</td>
</tr>
<tr>
<td>COUN 892</td>
<td>Culminating Experience for Counselors</td>
<td>3</td>
</tr>
</tbody>
</table>

Pupil Personnel Services Credential: School Counseling Designation — Post-Master’s Level

Pupil Personnel Services Credential Only Program
School counselors are professionals who specialize in serving students in public and private schools (grades PK–12) through classroom, group, and individual counseling within a comprehensive school counseling program designed to meet students’ academic, personal-social, and career needs. The Pupil Personnel Services Credential (PPSC) program in school counseling is designed to accommodate those individuals who currently hold a master’s degree in counseling and who wish to acquire a credential enabling them to work as a school counselor in a public school setting.
Employment Prospects
The Department of Education notes that 190,000 teachers will have to be trained and hired to teach a projected increase of 33.1% in the school age population in the coming years. The hiring of school counselors will likely follow.

General Information
Students completing the post-master’s PPSC program in school counseling will meet the standards of quality and effectiveness as recommended by the California Commission on Teacher Credentialing (CCTO).

The program is designed to supplement in a systematic manner an already completed master’s degree. It comprises a minimum of 15 semester units that can be completed in two or three semesters. The three-course school specialization sequence (COUN 716, COUN 717, COUN 718) is offered fall, spring, and fall. Students also complete a post-master’s internship, consisting of a minimum of 600 hours in two of three settings (elementary, middle, or high school) and under the supervision of a credentialed school counselor who has been practicing in the field for at least two years. Additional courses may be required depending on the student’s previous coursework.

Admissions Procedure
Applications are accepted for fall semester only and must be received by the department no later than January 15 of each year. To obtain a post-master’s PPSC only program application, visit our website at counseling.sfsu.edu (http://counseling.sfsu.edu). The department reviews each application and, if accepted, consultation with the coordinator of the school counseling program is required to determine which classes are needed to complete the PPSC program. Upon departmental review of the application and acceptance to the credential program, the student is invited for advising and orientation.

Applicants must also apply to the University to register for courses.

Pupil Personnel Services Credential: School Counseling Designation – Minimum 15 units

Required Course Work

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 716</td>
<td>Professional Seminar I - Structural Elements in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 717</td>
<td>Professional Seminar II - Functional Elements in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 718</td>
<td>Professional Seminar III - Professional Issues in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 850</td>
<td>Second Specialization Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Courses for Post-Master’s Credential-Only Students
In order to meet the standards of the California Commission on Teacher Credentialing (CTC), upon advisement, students may be required to take additional coursework to meet program and credential requirements.

Typical content courses include the following:

- Assessment in Counseling
- Addictions
- Group Counseling Process
- Social and Cultural Foundations in Counseling
- Law and Ethics in Counseling
- Couples and Family Counseling
- Crisis Counseling for Counselors

Required Fieldwork
The state-mandated requirements are as follows:

Field Practice
Each candidate in field practice must demonstrate knowledge and skill in the areas of educational assessment, personal and social counseling, academic and career counseling, program development, program coordination and supervision, consultation, legal issues, multicultural competency, and professional ethics:

1. A minimum of 600 clock hours of field practice are required in a PK-12 school setting in direct contact with pupils.
   a. Fieldwork shall be provided in at least two of three settings (elementary, middle, and/or high school) with a minimum of 200 hours at each setting.
   b. At least 100 clock hours shall be with at least ten pupils (individually and/or in a group) of a racial/ethnic background different from that of the candidate.
   c. A minimum of 25 clock hours will involve group counseling and guidance activities in a school setting.
CRIMINAL JUSTICE STUDIES

College of Health and Social Sciences
Dean: Alvin Alvarez

School of Public Affairs and Civic Engagement
Director: Elizabeth Brown

Criminal Justice Studies Program
HSS 210
Phone: (415) 405-4129
Website: cj.sfsu.edu (http://cj.sfsu.edu)

Program Scope

Drawing upon a rich urban environment, the multidisciplinary program in criminal justice studies explores the connections between law, crime, and justice. The curriculum emphasizes critical thinking about the administration of justice, crime and delinquency, legal studies, and working with diverse communities. As part of the major, students participate in a culminating field experience at the end of their program. The program is intended for a diverse group of students whose interests range from the local to the global, from street crime to terrorism, from municipal policing to international courts.

Students seeking a major or minor begin with a foundation course that provides a cross-disciplinary perspective of criminal justice. Both majors and minors will pursue coursework within and across four areas of emphasis within the field of criminal justice studies.

1. Administration of Justice. Students explore central features of criminal justice systems. Courses include treatment of distinguishing features of the U.S. criminal justice system and comparative perspectives of systems around the globe. Attention is given to recurring problems including abuse of authority, community conflict, and discrimination in case processing. Students have opportunities to learn methods and applications for studying criminal justice systems and processes.

2. Crime and Delinquency. Courses in this area expose students to major explanations of what brings about different forms of juvenile delinquency and adult criminality. Students have opportunities to explore biological, feminist, economic, international, psychological, racial and sociological perspectives of crime and delinquency. In addition to addressing street crime, courses are available for learning about hate crime, organized crime, terrorism, and white collar crime.

3. Legal Studies. Attention is given to legal doctrine relevant to criminal justice, the practice of law by criminal justice agents and the experience of law by defendants, family members, and victims. Courses include distinctive disciplinary perspectives of law as well as issues faced by particular populations. Students have the opportunity to learn and apply legal analysis, including case law and development of legal briefs.

4. Working with Diverse Communities. Working in the criminal justice system in any capacity requires interacting with individuals from diverse family, cultural, social and economic backgrounds. Courses in this area expose students to a deeper understanding and appreciation of individuals and groups from backgrounds other than their own. These courses help students develop communication skills to bridge cultural differences while working toward common goals related to the pursuit of social as well as criminal justice.

Students pursuing the major will complete their coursework with a culminating field experience.

A network of criminal justice agencies and personnel in San Francisco and throughout the Bay Area serves as a powerful asset for students. An active Criminal Justice Student Association plans and implements community service activities, has a guest lecture program featuring criminal justice professionals, and creates a sense of community on campus.

Career Outlook

The major and minor provide training for students who anticipate they will be engaged in their communities regarding issues of law, crime, and justice as well as those seeking related careers in government, law and higher education. Career opportunities include those in law enforcement, diversion, crime analysis, probation, parole, corrections, juvenile justice, victim advocacy, corporate security, community development and justice research. Students who intend to pursue graduate education in criminal justice, justice studies, criminology and related fields, as well as those planning to apply to law school, are encouraged to consider the major and minor in criminal justice.

Associate Professors
Brown, Snipes

Assistant Professors
Barganier, Rodriguez, Yarbrough

Lecturers
Carroll, Chappell, Dudley, Juno, Koehler, Macallair, Santos, Vencill, Viola, Walsh, Woods

Associated Faculty
Clavier, Fischer, A. Smith

Major
• Bachelor of Arts in Criminal Justice Studies (p. 474)

Minor
• Minor in Criminal Justice Studies (p. 491)

Bachelor of Arts in Criminal Justice Studies

Students are encouraged to take introductory courses in at least two of the following six disciplines based on their academic interests prior to entering the degree program: economics, history, international relations, political science, psychology, sociology.

Change of Major Applicants

Undeclared majors and students enrolled in other disciplines at SF State who seek to change their major to criminal justice studies must have junior standing, have completed a minimum of 52 units with a grade of C- or better, have taken ENG 214 (or equivalent), and one GE Area A3 Critical Thinking course (formerly Segment I critical thinking) with a grade of C or better before applying for a change of major.
II. Crime and Delinquency (6–8 Units)

- C J 300  Criminal Justice: A Cross-Disciplinary Perspective  4
- C J 323GW  Ethics in Criminal Justice - GWAR  3
  C J 330GW  Research Methods in Criminal Justice-GWAR

III. Legal Studies (6–8 Units)

- AFRS 375  Law and the Black Community  3
- C J 335  Legal Writing and Research  4
- C J 501  Criminal Law  3
- C J 502  Criminal Procedure  3
- C J 505/I R 332  International Criminal Law  4
- COMM 564  Issues in Free Speech  4
- COUN 630  Legal Center Training I  3
- COUN 631  Legal Center Training II  3
- ECON 516  Law and Economics  3
- GPS/PHIL 375  Peace Law and Human Rights in the U.S.  3
- HIST 470  The U.S. Constitution to 1877  3
- HIST 471  The U.S. Constitution since 1877  3
- LABR 650  Labor Law: An Introduction and Overview  3
- PHIL 335  Law and Society  3
- PHIL 379  Philosophy of Constitutional Interpretation  3
- PHIL 380  Philosophy of Law  3
- PLSI 552  Individual Rights and the Constitution  4
- PSY 472  Introduction to Legal Psychology  3
- SOC 457  Sociology of Law  4

IV. Working with Diverse Communities (6–8 Units)

- AA S 595  Asian American Communities and Public Policy  3
- AIS 460  Power and Politics in American Indian History  3
- COMM 503  Gender and Communication  4
- COMM 525  Sexual Identity and Communication  4
- COMM 531  Conflict Resolution  4
- COMM 541  Critical Approaches to Culture and Communication  4
- COMM 543  Dialogues Across Differences  4
- HIST 462/ RRS 670  Making Whites: Race-making in America  3
- HIST 465  American Ethnic and Racial Relations II: 1890 - Present  3
- LTNS 415  Economic Progress of Latinos in the U.S.  3
- LTNS 470  Latina/o Immigration to the U.S.  3
- PHIL 455/ SXS 569  Sex and the Law  3
- PLSI/AFRS 466  Black Lives Matter: Race and Social Movements  4
- PLSI/USP 512  Urban Politics and Community Power  4
- PSY 547  Social Conflict and Conflict Resolution  3
- RRS/SOC 330  Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation  3
- RRS 571  Women, Class, and Race  3
- SXS 455  Sex, Power and Politics  3
- WGS 514  Women and the Prison Industrial Complex  3
- WGS 554  Gender and Global Migration  3
- WGS 570  Women, Gender, Policy, and Justice  3

Total units for the degree: 120
1. **Note:** A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

2. **Note:** A total of 30 units in the major must be in upper division courses. Up to a total of six transfer units in the following criminal justice courses completed at a community college may be counted toward meeting distribution requirements for the major.

### Complementary Studies

Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the Criminal Justice major is to meet with an advisor to identify 12 units of courses complementary to the major. With advisor approval, up to twelve of these units may be used to satisfy units in the major. Consult with your major advisor for assistance.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
</tbody>
</table>

### Social Sciences:
- US History: LD or UD
- US & CA Government: LD or UD
- Lifelong Learning and Self-Development (LLD): UD or LD
- Physical and/or Life Science: UD
- Arts and/or Humanities: UD
- Social Sciences: UD

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM): LD or UD
- Environmental Sustainability (ES): UD or LD
- Global Perspectives (GP): UD or LD
- Social Justice (SJ): UD or LD

Note: LD = Lower Division; UD = Upper Division.

### First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 479)

### Transfer Student Roadmap (2 Year)

For students with an AA-T in **Administration of Justice**. This roadmap opens in a new tab. (p. 482)

For students with an AA-T in **Social Justice Studies**. This roadmap opens in a new tab. (p. 485)

For students with an AA-T in **Sociology**. This roadmap opens in a new tab. (p. 488)

### This degree program is an approved pathway (“similar” major) for students earning the ADT in **Administration of Justice**

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.
An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www_assist.org](http://www_assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Criminal Justice Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

| **Second Semester** | | |
| GE Area A: Oral Communication (A1) or Critical Thinking (A3) | | 3 |
| GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II | | 3 |
| GE Area B: Quantitative Reasoning (B4) | | 3 |
| GE Area D: U.S. History (D2) or U.S. and California Government (D3) | | 3 |
| Complementary Studies or SF State Studies or University Elective | | 3 |
| **Units** | | 15 |

| **Third Semester** | | |
| GE Area A: Written English Communication II (A4) if not already satisfied | | 3 |
| Complementary Studies or SF State Studies or University Elective | | 3 |
| GE Area B: Physical Science (B1) and Laboratory Science (B3) | | 3-4 |
| GE Area C: Arts (C1) | | 3 |
| GE Area C: Humanities: Literature (C3) | | 3 |
| Complementary Studies or SF State Studies or University Elective | | 3 |
| **Units** | | 15-16 |

| **Fourth Semester** | | |
| GE Area B: Life Science (B2) and Laboratory Science (B3) | | 3-4 |
| Complementary Studies or SF State Studies or University Elective - Take Four | | 12 |
| **Units** | | 15-16 |

| **Fifth Semester** | | |
| C J 300 | Criminal Justice: A Cross-Disciplinary Perspective | 4 |
| C J 323GW or C J 330GW | Ethics in Criminal Justice - GWAR or Research Methods in Criminal Justice-GWAR | 3-4 |
| GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | | 3 |
| Complementary Studies or SF State Studies or University Elective – Take Two | | 6 |
| **Units** | | 16-17 |

| **Sixth Semester** | | |
| Major Distribution: Administration of Justice Course (6-8 units) | | 3-4 |
| Major Distribution: Crime and Delinquency (6-8 units) | | 3-4 |
| Major Distribution: Legal Studies (6-8 units) | | 3-4 |
| Major Distribution: Working with Diverse Communities (6-8 units) | | 3-4 |
| Complementary Studies or SF State Studies or University Elective | | 3 |
| **Units** | | 15-19 |

| **Seventh Semester** | | |
| Major Distribution: Administration of Justice Course (6-8 units) | | 3-4 |
| Major Distribution: Crime and Delinquency (6-8 units) | | 3-4 |
Major Distribution: Legal Studies (6-8 units) 3-4
Major Distribution: Working with Diverse Communities (6-8 units) 3-4
GE Area UD--B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) 3

Units 15-19

Eighth Semester
C J 680 Field Course in Criminal Justice 4
Complementary Studies or SF State Studies or University Elective – Take Three to Four 10-12

Units 14-16

Total Units 120-133

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3 Complementary Studies
Bachelor of Arts students must complete at least twelve units of Complementary Studies outside of the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement. Students earning Bachelor of Music or Bachelor of Science degrees do not have to complete the Complementary Studies requirement. Details about Complementary Studies can be found in the Bulletin description for each B.A. degree.
4 Consider taking a class with a combined laboratory or a separate lab to fulfill GE Area B3 if not already satisfied.
5 Administration of Justice (6-8 Units)
C J 340 Comparative Criminal Justice (4 units)
C J 400 Police and Public Policy (3 units)
C J 450 Jails and Prisons (3 units)
C J 451 The Architecture of Incarceration (3 units)
C J 460 Community Corrections and Sentencing (3 units)
C J 475 Intervention Policies in Juvenile Justice (3 units)
C J 480 California Corrections System (3 units)
C J 525 Global Restorative Justice and Corrections (3 units)
C J 530 Geographies of Social Control and Urban Diversity (3 units)
I R 360 Intelligence and Intelligence Agencies (4 units)
PLSI 478 Judicial Process (4 units)
PSY 475 Psychology of Policing (3 units)
SOC 455 Punishment and Social Control (3 units)

6 Crime and Delinquency (6-8 Units)
C J 401 Criminal Profiling (3 units)
C J 405 Organized Crime (3 units)
C J 471 Contemporary Issues in Juvenile Justice (3 units)
C J 515 Extremism as Crime (3 units)
C J 520 Construction of Crime and Justice (3 units)
C J 550 School Violence and Discipline (3 units)
C J 570 Urban Violence (3 units)
C J 600 Youth Gangs in Community Context (3 units)
C J 605 Criminalization of Gender and Sexuality (3 units)
COMM 571 The Rhetoric of Terrorism (4 units)
COMM 573 The Rhetoric of Criminality and Punishment (4 units)
ECON 515 Economics of Crime and Justice (3 units)
I R 361 Terrorism and Covert Political Warfare (4 units)
LTNS 430 Race, Crime, and Justice (3 units)
C J 485 Latina/o Youth, Crime, and Justice (3 units)
PHIL 378 Philosophy of Criminal Law (3 units)
SOC 362 The Social Construction of Deviance and Conformity (4 units)
SOC 451 Criminological Theory (4 units)
SOC 452 Juvenile Justice (4 units)
**Legal Studies (6–8 Units)**
AFRS 375 Law and the Black Community (3 units)
AFRS 376 Government, the Constitution, and Black Citizens (3 units)
C J 335 Legal Writing and Research (4 units)
C J 501 Criminal Law (3 units)
C J 502 Criminal Procedure (3 units)
C J 505 International Criminal Law (4 units)
COMM 564 Issues in Free Speech (4 units)
COUN 630 Legal Center Training I (3 units)
COUN 631 Legal Center Training II (3 units)
ECON 516 Law and Economics (3 units)
PHIL 375 Peace Law and Human Rights in the U.S. (3 units)
HIST 470 The U.S. Constitution to 1877 (3 units)
HIST 471 The U.S. Constitution since 1877 (3 units)
LABR 650 Labor Law: An Introduction and Overview (3 units)
PHIL 335 Law and Society (3 units)
PHIL 379 Philosophy of Constitutional Interpretation (3 units)
PHIL 380 Philosophy of Law (3 units)
PLSI 552 Individual Rights and the Constitution (4 units)
PSY 472 Introduction to Legal Psychology (3 units)
SOC 457 Sociology of Law (4 units)

**Working with Diverse Communities (6–8 Units)**
AA S 595 Asian American Communities and Public Policy (3 units)
AIS 460 Power and Politics in American Indian History (3 units)
COMM 503 Gender and Communication (4 units)
COMM 525 Sexual Identity and Communication (4 units)
COMM 531 Conflict Resolution (4 units)
COMM 541 Critical Approaches to Culture and Communication (4 units)
COMM 543 Dialogues Across Differences (4 units)
HIST 462 Making Whites: Race-making in America (3 units)
HIST 465 American Ethnic and Racial Relations II: 1890- Present (3 units)
LTNS 415 Economic Progress of Latinos in the U.S. (3 units)
LTNS 470 Latina/o Immigration to the U.S. (3 units)
PHIL 455 Sex and the Law (3 units)
PLSI 466 Black Lives Matter: Race and Social Movements (4 units)
PLSI 512 Urban Politics and Community Power (4 units)
PSY 547 Social Conflict and Conflict Resolution (3 units)
RRS 330 Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation (3 units)
RRS 571 Women, Class, and Race (3 units)
SXS 455 Sex, Power and Politics (3 units)
WGS 514 Women and the Prison Industrial Complex (3 units)
WGS 554 Gender and Global Migration (3 units)
WGS 570 Women, Gender, Policy, and Justice (3 units)
Bachelor of Arts in Criminal Justice Studies – AJ Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Administration of Justice. 6 units in the major (Distribution Requirements Areas I and II) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>C J 300</td>
<td>Criminal Justice: A Cross-Disciplinary Perspective ¹</td>
<td>4</td>
</tr>
<tr>
<td>Major Distribution Requirement – See List</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met in transfer</td>
<td></td>
<td></td>
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<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
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<tr>
<td>C J 323GW or C J 330GW</td>
<td>Ethics in Criminal Justice - GWAR or Research Methods in Criminal Justice-GWAR</td>
<td>3-4</td>
</tr>
<tr>
<td>Major Distribution Requirement – See List – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>16</td>
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<tr>
<td>Major Distribution Requirement – See List – Take Two</td>
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<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
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<td>3</td>
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<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>C J 680</td>
<td>Field Course in Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>Major Distribution Requirement – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective or Upper Division GE: (UD-B or UD-C) if needed</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ C J 300 also satisfies GE Area UD–D: Upper Division Social Sciences.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 6–15 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper Division GE (6 units): C J 300 satisfies both a major requirement and UD GE (D). See grid above.
- Students entering the major with the AS-T in Administration of Justice are not required to fulfill SF State Studies requirements.
Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Criminal Justice Major: 29–36 Units**
Six units from the ADT to be applied in Distribution Requirement Categories I and III – see a department advisor.

- Foundation Courses (7–8 units)
- Distribution Requirements (18–24 units in four different categories) – one course from (I) Administration of Justice, two courses from (II) Crime and Delinquency, one course from (III) Legal Studies, and two courses from (IV) Working with Diverse Communities
- Culminating Experience (4 units)

**University Electives: 14 or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and in the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.

**Major Distribution Requirements**

### I. Administration of Justice

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C J 340/I R 341</td>
<td>Comparative Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>C J 400</td>
<td>Police and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>C J 450</td>
<td>Jails and Prisons</td>
<td>3</td>
</tr>
<tr>
<td>C J 451</td>
<td>The Architecture of Incarceration</td>
<td>3</td>
</tr>
<tr>
<td>C J 460</td>
<td>Community Corrections and Sentencing</td>
<td>3</td>
</tr>
<tr>
<td>C J 475</td>
<td>Intervention Policies in Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J 480</td>
<td>California Corrections System</td>
<td>3</td>
</tr>
<tr>
<td>C J 525</td>
<td>Global Restorative Justice and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>C J 530</td>
<td>Geographies of Social Control and Urban Diversity</td>
<td>3</td>
</tr>
<tr>
<td>I R 360</td>
<td>Intelligence and Intelligence Agencies</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 478</td>
<td>Judicial Process</td>
<td>4</td>
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<tr>
<td>PSY 475</td>
<td>Psychology of Policing</td>
<td>3</td>
</tr>
<tr>
<td>SOC 455</td>
<td>Punishment and Social Control</td>
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### II. Crime and Delinquency

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<th>Title</th>
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<tr>
<td>C J 401</td>
<td>Criminal Profiling</td>
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<tr>
<td>C J 405</td>
<td>Organized Crime</td>
<td>3</td>
</tr>
<tr>
<td>C J 471</td>
<td>Contemporary Issues in Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J 515</td>
<td>Extremism as Crime</td>
<td>3</td>
</tr>
<tr>
<td>C J 520</td>
<td>Construction of Crime and Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J 550</td>
<td>School Violence and Discipline</td>
<td>3</td>
</tr>
<tr>
<td>C J 570</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>C J 600</td>
<td>Youth Gangs in Community Context</td>
<td>3</td>
</tr>
<tr>
<td>C J 605</td>
<td>Criminalization of Gender and Sexuality</td>
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<tr>
<td>COMM 571</td>
<td>The Rhetoric of Terrorism</td>
<td>4</td>
</tr>
<tr>
<td>COMM 573</td>
<td>The Rhetoric of Criminality and Punishment</td>
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<tr>
<td>ECON 515</td>
<td>Economics of Crime and Justice</td>
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<tr>
<td>I R 361/C J 461</td>
<td>Terrorism and Covert Political Warfare</td>
<td>4</td>
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<td>LTNS 430/C J 435</td>
<td>Race, Crime, and Justice</td>
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<td>LTNS/C J 485</td>
<td>Latina/o Youth, Crime, and Justice</td>
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<td>PHIL 378</td>
<td>Philosophy of Criminal Law</td>
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<td>SOC 362</td>
<td>The Social Construction of Deviance and Conformity</td>
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<tr>
<td>SOC 451/C J 452</td>
<td>Criminological Theory</td>
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<tr>
<td>SOC 452/C J 470</td>
<td>Juvenile Justice</td>
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### III. Legal Studies
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community</td>
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<tr>
<td>AFRS 476</td>
<td>Government, the Constitution, and Black Citizens</td>
<td>3</td>
</tr>
<tr>
<td>C J 335</td>
<td>Legal Writing and Research</td>
<td>4</td>
</tr>
<tr>
<td>C J 501</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>C J 502</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>C J 505/I R 332</td>
<td>International Criminal Law</td>
<td>4</td>
</tr>
<tr>
<td>COMM 564</td>
<td>Issues in Free Speech</td>
<td>4</td>
</tr>
<tr>
<td>COUN 630</td>
<td>Legal Center Training I</td>
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<tr>
<td>COUN 631</td>
<td>Legal Center Training II</td>
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<tr>
<td>ECON 516</td>
<td>Law and Economics</td>
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<tr>
<td>GPS/PHIL 375</td>
<td>Peace Law and Human Rights in the U.S.</td>
<td>3</td>
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<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877</td>
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<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877</td>
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<tr>
<td>LABR 650</td>
<td>Labor Law: An Introduction and Overview</td>
<td>3</td>
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<tr>
<td>PHIL 335</td>
<td>Law and Society</td>
<td>3</td>
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<tr>
<td>PHIL 379</td>
<td>Philosophy of Constitutional Interpretation</td>
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<tr>
<td>PHIL 380</td>
<td>Philosophy of Law</td>
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<tr>
<td>PLSI 552</td>
<td>Individual Rights and the Constitution</td>
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<tr>
<td>PSY 472</td>
<td>Introduction to Legal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 457</td>
<td>Sociology of Law</td>
<td>4</td>
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</tbody>
</table>

IV. Working with Diverse Communities

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AA S 595</td>
<td>Asian American Communities and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>COMM 503</td>
<td>Gender and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 525</td>
<td>Sexual Identity and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 531</td>
<td>Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>COMM 541</td>
<td>Critical Approaches to Culture and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 543</td>
<td>Dialogues Across Differences</td>
<td>4</td>
</tr>
<tr>
<td>HIST 462/RRS 670</td>
<td>Making Whites: Race-making in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 465</td>
<td>American Ethnic and Racial Relations II: 1890 - Present</td>
<td>3</td>
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<tr>
<td>LTNS 415</td>
<td>Economic Progress of Latinos in the U.S.</td>
<td>3</td>
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<tr>
<td>LTNS 470</td>
<td>Latina/o Immigration to the U.S.</td>
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<tr>
<td>PHIL 455/SXS 569</td>
<td>Sex and the Law</td>
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<tr>
<td>PLSI/ETHS 466</td>
<td>Black Lives Matter: Race and Social Movements</td>
<td>4</td>
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<tr>
<td>PLSI/USP 512</td>
<td>Urban Politics and Community Power</td>
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<tr>
<td>PSY 547</td>
<td>Social Conflict and Conflict Resolution</td>
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<tr>
<td>RRS/SOC 330</td>
<td>Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation</td>
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<tr>
<td>RRS 571</td>
<td>Women, Class, and Race</td>
<td>3</td>
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<tr>
<td>SXS 455</td>
<td>Sex, Power and Politics</td>
<td>3</td>
</tr>
<tr>
<td>WGS 514</td>
<td>Women and the Prison Industrial Complex</td>
<td>3</td>
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<tr>
<td>WGS 554</td>
<td>Gender and Global Migration</td>
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<tr>
<td>WGS 570</td>
<td>Women, Gender, Policy, and Justice</td>
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</table>
**Bachelor of Arts in Criminal Justice Studies – SJS Associate Degree for Transfer Roadmap**

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. Six units in the major (Distribution Requirements Areas I and II) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>C J 300</td>
<td>Criminal Justice: A Cross-Disciplinary Perspective</td>
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<td>C J 323GW</td>
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<td>3</td>
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<td><strong>Third Semester</strong></td>
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<td>6</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td>C J 680</td>
<td>Field Course in Criminal Justice</td>
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<td><strong>Total Units</strong></td>
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1 C J 300 also satisfies GE Area UD–D: Upper Division Social Sciences.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 6–15 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper Division GE (6 units): C J 300 satisfies both a major requirement and UD GE (D). See notes.
- Students entering the major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements.
Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Criminal Justice Major: 29–36 Units**
Six units from ADT to be applied in Distribution Requirement Categories I and III — see a department advisor.

- Foundation Courses (7–8 units)
- Distribution Requirements (18–24 units in four different categories) — one course from (i) Administration of Justice, two courses from (II) Crime and Delinquency, one course from (III) Legal Studies, and two courses from (IV) Working with Diverse Communities
- Culminating Experience (4 units)

**University Electives: 14 or More Units**
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and in the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.

**Major Distribution Requirements**
I. Administration of Justice

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<tr>
<th>Course Code</th>
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<td>C J 400</td>
<td>Police and Public Policy</td>
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<tr>
<td>C J 450</td>
<td>Jails and Prisons</td>
<td>3</td>
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<tr>
<td>C J 451</td>
<td>The Architecture of Incarceration</td>
<td>3</td>
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<tr>
<td>C J 460</td>
<td>Community Corrections and Sentencing</td>
<td>3</td>
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<td>C J 475</td>
<td>Intervention Policies in Juvenile Justice</td>
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<td>C J 480</td>
<td>California Corrections System</td>
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<td>C J 525</td>
<td>Global Restorative Justice and Corrections</td>
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<td>C J 530</td>
<td>Geographies of Social Control and Urban Diversity</td>
<td>3</td>
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<td>I R 360</td>
<td>Intelligence and Intelligence Agencies</td>
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<td>PLSI 478</td>
<td>Judicial Process</td>
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<td>PSY 475</td>
<td>Psychology of Policing</td>
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<td>SOC 455</td>
<td>Punishment and Social Control</td>
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II. Crime and Delinquency

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<td>C J 405</td>
<td>Organized Crime</td>
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<td>C J 471</td>
<td>Contemporary Issues in Juvenile Justice</td>
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<td>C J 515</td>
<td>Extremism as Crime</td>
<td>3</td>
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<td>C J 520</td>
<td>Construction of Crime and Justice</td>
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<tr>
<td>C J 550</td>
<td>School Violence and Discipline</td>
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<td>C J 570</td>
<td>Urban Violence</td>
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<td>C J 600</td>
<td>Youth Gangs in Community Context</td>
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<td>C J 605</td>
<td>Criminalization of Gender and Sexuality</td>
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<td>COMM 571</td>
<td>The Rhetoric of Terrorism</td>
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<td>COMM 573</td>
<td>The Rhetoric of Criminality and Punishment</td>
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<td>ECON 515</td>
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<td>Criminological Theory</td>
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<td>SOC 452/C J 470</td>
<td>Juvenile Justice</td>
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III. Legal Studies
AFRS 375 Law and the Black Community 3
AFRS 376 Government, the Constitution, and Black Citizens 3
C J 335 Legal Writing and Research 4
C J 501 Criminal Law 3
C J 502 Criminal Procedure 3
C J 505/I R 332 International Criminal Law 4
COMM 564 Issues in Free Speech 4
COUN 630 Legal Center Training I 3
COUN 631 Legal Center Training II 3
ECON 516 Law and Economics 3
GPS/PHIL 375 Peace Law and Human Rights in the U.S. 3
HIST 470 The U.S. Constitution to 1877 3
HIST 471 The U.S. Constitution since 1877 3
LABR 650 Labor Law: An Introduction and Overview 3
PHIL 335 Law and Society 3
PHIL 379 Philosophy of Constitutional Interpretation 3
PHIL 380 Philosophy of Law 3
PLSI 552 Individual Rights and the Constitution 4
PSY 472 Introduction to Legal Psychology 3
SOC 457 Sociology of Law 4

IV. Working with Diverse Communities

AA S 595 Asian American Communities and Public Policy 3
AIS 460 Power and Politics in American Indian History 3
COMM 503 Gender and Communication 4
COMM 525 Sexual Identity and Communication 4
COMM 531 Conflict Resolution 4
COMM 541 Critical Approaches to Culture and Communication 4
COMM 543 Dialogues Across Differences 4
HIST 462/RRS 670 Making Whites: Race-making in America 3
HIST 465 American Ethnic and Racial Relations II: 1890 - Present 3
LTNS 415 Economic Progress of Latinos in the U.S. 3
LTNS 470 Latina/o Immigration to the U.S. 3
PHIL 455/SXS 569 Sex and the Law 3
PLSI/ETHS 466 Black Lives Matter: Race and Social Movements 4
PLSI/USP 512 Urban Politics and Community Power 4
PSY 547 Social Conflict and Conflict Resolution 3
RRS/SOC 330 Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation 3
RRS 571 Women, Class, and Race 3
SXS 455 Sex, Power and Politics 3
WGS 514 Women and the Prison Industrial Complex 3
WGS 554 Gender and Global Migration 3
WGS 570 Women, Gender, Policy, and Justice 3
Bachelor of Arts in Criminal Justice Studies – SOC Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Sociology. Six units in the major (Distribution Requirements Areas I and III) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

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<tr>
<th>Course</th>
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<th>Units</th>
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<td><strong>First Semester</strong></td>
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<td>C J 300</td>
<td>Criminal Justice: A Cross-Disciplinary Perspective ¹</td>
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<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>US History (p. 74)</td>
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<td>or University Elective if US History met before transfer</td>
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<td><strong>Second Semester</strong></td>
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<td>16</td>
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<td>C J 323GW or C J 330GW</td>
<td>Ethics in Criminal Justice - GWAR or Research Methods in Criminal Justice-GWAR</td>
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<td><strong>Third Semester</strong></td>
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<td>University Elective or Upper Division GE (UD-B or UD-C) if needed</td>
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<tr>
<td><strong>Total Units</strong></td>
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</table>

¹ C J 300 also satisfies GE Area UD–D: Upper Division Social Sciences.

To Do at SF State:

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Six units from the ADT to be applied in Distribution Requirement Categories I and III – see a department advisor.

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- Culminating Experience (4 units)

University Electives: 14 or More Units
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Major Distribution Requirements
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>C J 525</td>
<td>Global Restorative Justice and Corrections</td>
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<td>C J 530</td>
<td>Geographies of Social Control and Urban Diversity</td>
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<td>Intelligence and Intelligence Agencies</td>
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<td>PLSI 478</td>
<td>Judicial Process</td>
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<td>PSY 475</td>
<td>Psychology of Policing</td>
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<td>SOC 455</td>
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II. Crime and Delinquency

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<td>Organized Crime</td>
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<td>C J 471</td>
<td>Contemporary Issues in Juvenile Justice</td>
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<td>C J 515</td>
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<td>Construction of Crime and Justice</td>
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<td>Philosophy of Criminal Law</td>
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<td>The Social Construction of Deviance and Conformity</td>
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<td>Criminological Theory</td>
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<td>Juvenile Justice</td>
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III. Legal Studies
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<td>Government, the Constitution, and Black Citizens</td>
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<td>C J 335</td>
<td>Legal Writing and Research</td>
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<tr>
<td>C J 501</td>
<td>Criminal Law</td>
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<tr>
<td>C J 502</td>
<td>Criminal Procedure</td>
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<tr>
<td>C J 505/I R 332</td>
<td>International Criminal Law</td>
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<td>COMM 564</td>
<td>Issues in Free Speech</td>
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<td>COUN 631</td>
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<td>Law and Economics</td>
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<td>Peace Law and Human Rights in the U.S.</td>
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<td>The U.S. Constitution to 1877</td>
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<td>LABR 650</td>
<td>Labor Law: An Introduction and Overview</td>
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<td>PHIL 335</td>
<td>Law and Society</td>
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<td>PHIL 379</td>
<td>Philosophy of Constitutional Interpretation</td>
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<td>Individual Rights and the Constitution</td>
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**IV. Working with Diverse Communities**

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<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>COMM 503</td>
<td>Gender and Communication</td>
<td>4</td>
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<tr>
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<tr>
<td>LTNS 415</td>
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<td>Black Lives Matter: Race and Social Movements</td>
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<td>PLSI/USP 512</td>
<td>Urban Politics and Community Power</td>
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<td>PSY 547</td>
<td>Social Conflict and Conflict Resolution</td>
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</tr>
<tr>
<td>RRS/SOC 330</td>
<td>Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation</td>
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<td>RRS 571</td>
<td>Women, Class, and Race</td>
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<td>SXS 455</td>
<td>Sex, Power and Politics</td>
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<td>Women and the Prison Industrial Complex</td>
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<td>WGS 554</td>
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<tr>
<td>WGS 570</td>
<td>Women, Gender, Policy, and Justice</td>
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</table>
## Minor in Criminal Justice Studies

### Criminal Justice Studies Minor – 16–20 units

#### Foundation Course (4 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>C J 300</td>
<td>Criminal Justice: A Cross-Disciplinary Perspective</td>
<td>4</td>
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</table>

#### Distribution Requirements (12–16 units)
Select one course from each of the four categories (I–IV) below.

### I. Administration of Justice (3–4 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>C J 340</td>
<td>Comparative Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>C J 400</td>
<td>Police and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>C J 450</td>
<td>Jails and Prisons</td>
<td>3</td>
</tr>
<tr>
<td>C J 451</td>
<td>The Architecture of Incarceration</td>
<td>3</td>
</tr>
<tr>
<td>C J 460</td>
<td>Community Corrections and Sentencing</td>
<td>3</td>
</tr>
<tr>
<td>C J 475</td>
<td>Intervention Policies in Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J 480</td>
<td>California Corrections System</td>
<td>3</td>
</tr>
<tr>
<td>C J 525</td>
<td>Global Restorative Justice and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>C J 530</td>
<td>Geographies of Social Control and Urban Diversity</td>
<td>3</td>
</tr>
<tr>
<td>I R 360</td>
<td>Intelligence and Intelligence Agencies</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 475</td>
<td>San Francisco Political Issues</td>
<td>4</td>
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<tr>
<td>PLSI 478</td>
<td>Judicial Process</td>
<td>4</td>
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<tr>
<td>SOC 455</td>
<td>Punishment and Social Control</td>
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### II. Crime and Delinquency (3–4 units)

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<tbody>
<tr>
<td>AFRS 678</td>
<td>Urban Issues of Black Children and Youth</td>
<td>3</td>
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<tr>
<td>COMM 571</td>
<td>The Rhetoric of Terrorism</td>
<td>4</td>
</tr>
<tr>
<td>COMM 573</td>
<td>The Rhetoric of Criminality and Punishment</td>
<td>4</td>
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<tr>
<td>C J 401</td>
<td>Criminal Profiling</td>
<td>3</td>
</tr>
<tr>
<td>C J 405</td>
<td>Organized Crime</td>
<td>3</td>
</tr>
<tr>
<td>C J 435/SOC 451</td>
<td>Criminological Theory</td>
<td>4</td>
</tr>
<tr>
<td>C J 461/I R 361</td>
<td>Terrorism and Covert Political Warfare</td>
<td>4</td>
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<tr>
<td>C J 470/SOC 452</td>
<td>Juvenile Justice</td>
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<tr>
<td>C J 471</td>
<td>Contemporary Issues in Juvenile Justice</td>
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<tr>
<td>C J 605</td>
<td>Criminalization of Gender and Sexuality</td>
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<td>LTNS/C J 485</td>
<td>Latina/o Youth, Crime, and Justice</td>
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<tr>
<td>PHIL 378</td>
<td>Philosophy of Criminal Law</td>
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<tr>
<td>C J 515</td>
<td>Extremism as Crime</td>
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<tr>
<td>C J 520</td>
<td>Construction of Crime and Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J 550</td>
<td>School Violence and Discipline</td>
<td>3</td>
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<tr>
<td>C J 570</td>
<td>Urban Violence</td>
<td>3</td>
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<tr>
<td>C J 600</td>
<td>Youth Gangs in Community Context</td>
<td>3</td>
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<tr>
<td>ECON 515</td>
<td>Economics of Crime and Justice</td>
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<tr>
<td>SOC 362</td>
<td>The Social Construction of Deviance and Conformity</td>
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### III. Legal Studies (3–4 units)

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<tr>
<td>AFRS 375</td>
<td>Law and the Black Community</td>
<td>3</td>
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<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens</td>
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<tr>
<td>AIS 330</td>
<td>American Indian Law</td>
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<tr>
<td>COMM 564</td>
<td>Issues in Free Speech</td>
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<tr>
<td>COUN 630</td>
<td>Legal Center Training I</td>
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### IV. Working with Diverse Communities (3–4 units)

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<tr>
<td>AA S 595</td>
<td>Asian American Communities and Public Policy</td>
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<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
<td>3</td>
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</table>

**Note:** A total of 13 units must be upper division courses. Up to a total of 3 transfer units in Introduction to Criminal Justice or Concepts of Criminal Law completed at a California community college may be counted towards meeting requirements for the minor. For applicable courses, go to the ASSIST website: assist.org/web-assist/welcome.html (http://www.assist.org/web-assist/welcome.html).
ENVIRONMENTAL STUDIES

College of Health and Social Sciences
Dean: Alvin Alvarez

School of Public Affairs and Civic Engagement
Director: Elizabeth Brown

Environmental Studies Program
HSS 210
Phone: (415) 338–1149
Website: envs.sfsu.edu (http://envs.sfsu.edu)
Program Coordinator: Glenn Fieldman

Program Scope
The School of Public Affairs Environmental Studies Program offers a Bachelor of Arts in Environmental Studies and a Bachelor of Science in Environmental Studies with a concentration in Natural Resource Management and Conservation. Students in the B.A. program have three emphases from which to choose: Environmental Sustainability and Social Justice, Humanities and the Environment, and The Urban Environment.

The objective of the program is to produce exceptional graduates who are grounded in the study of contemporary environmental problems and solutions. The program provides students with the knowledge and skills required for understanding relationships between humans and the physical world. It examines how the environment is being used, abused, and perceived, and what individuals and organizations are doing and can do to protect it for themselves, future generations, and other living beings and ecosystems. Students participate in an internship and take a senior seminar. Both requirements emphasize community engagement and preparation for future environmental careers.

Career Outlook
Environmental Studies is a diverse field and includes opportunities for employment at many different venues. Private industry opportunities include solid waste management, resource recovery and recycling, hazardous waste management, water treatment and delivery, and air pollution control. Major local corporations have employment opportunities in environmental health and safety and environmental management. Environmental consultants who specialize in creating or reviewing environmental impact reports and statements and environmental regulations are needed at the federal and state agency level as well as in the private sector. Other employment opportunities include government agency level resource scientists, natural resource managers, and planners. In addition, local nonprofit activist groups provide a small number of full-time positions in the environmental field.

Major Requirements
- Environmental Studies majors who successfully complete ENVS 450GW in fall 2009 or thereafter will have satisfied the University Graduation Writing Assessment Requirement (GWAR).
- Environmental Studies majors must complete ENVS 300 and ENVS 450GW with a grade of C or better to continue in the major.

Associate Professor
Fieldman

Assistant Professor
Thoyre

Lecturers
Plater, Magalhaes

Associated Faculty
Barbosa, Boyer, Chattopadhyay, Chitewere, Davis, DeWitt, Gen, Hafernik, Henderson, Hennessy, Holzman, Keith, Kassiola, King, LeBuhn, Manning, McAfee, Nanus, Nelson, Oliphant, Palmer, Parker, Paton, Pinderhughes, Roberts, Silverman, Sklar, Vasey, Wilkinson

Majors
- Bachelor of Arts in Environmental Studies (p. 492)
- Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation (p. 500)

Bachelor of Arts in Environmental Studies

General Education Requirements Met in the Environmental Studies Major or Undeclared with Interest in Environmental Studies
The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of both CHEM 115 and CHEM 380.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of either BIOL 240 or BIOL 313.

Environmental Studies (B.A.)
Core (16–20 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
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<tr>
<td>or CHEM 180</td>
<td>Chemistry for the Energy and the Environment</td>
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<tr>
<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution</td>
<td>3</td>
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<tr>
<td>ENVS 300</td>
<td>Environmental Studies</td>
<td>3</td>
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<tr>
<td>ENVS 450GW</td>
<td>Environmental Law and Policy - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 680</td>
<td>Environmental Studies Internship</td>
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<tr>
<td>ENVS 690</td>
<td>Senior Seminar in Environmental Studies</td>
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</table>

Electives (16–18 units)
Select one course from each category:

**Physical Environment**
- ERTH 230 Environmental Geology | 3
- GEOG 101 Our Physical Environment | 3

**Sustainability and Social Justice**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ENVS/ECON 306</td>
<td>Economics and the Environment</td>
<td>3</td>
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<tr>
<td>ENVS 570</td>
<td>Applied Local Sustainability</td>
<td>3</td>
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<tr>
<td>PHIL 470</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>USP 514</td>
<td>Sustainable Development in Cities</td>
<td>4</td>
</tr>
<tr>
<td>USP 515/</td>
<td>GEOG 667 Environmental Justice: Race, Poverty,</td>
<td>4</td>
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<tr>
<td></td>
<td>and the Environment</td>
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<tr>
<td>Global/International</td>
<td></td>
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<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>I R/ENVS 331</td>
<td>Global Environmental Crisis</td>
<td>4</td>
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<tr>
<td>I R/GEOG 428</td>
<td>International Political Economy of Food and</td>
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<td></td>
<td>Hunger</td>
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<tr>
<td>Ecology</td>
<td>BIOL 313 Principles of Ecology</td>
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<tr>
<td>Research Methods</td>
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<tr>
<td>ENVS 224</td>
<td>Research Methods for Environmental Studies</td>
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</table>

### Environmental Sustainability and Social Justice Emphasis (11–12 units)

The environmental sustainability and social justice emphasis provides students with a theoretical and applied understanding of the issues of sustainability and the connections between social justice and environmental problems and solutions. Students study the roles that values and social, political, and economic structures play in contributing to the environmental crisis. With the help of an advisor, students obtain depth by selecting elective courses from political science, American Indian studies, sociology, philosophy and religion, economics, urban studies and planning, geography, women and gender studies, and other related fields.

Take 11–12 units. Two courses must be from the short list. Courses used to meet other requirements of the major cannot also be used to meet the environmental sustainability and social justice emphasis requirements.

#### Short List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 530</td>
<td>Environmental Leadership and Organizing</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 570</td>
<td>Applied Local Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Future Environments</td>
<td>3</td>
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<tr>
<td>PLSI 354</td>
<td>Politics, the Environment, and Social Change</td>
<td>4</td>
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<tr>
<td>USP 514</td>
<td>Sustainable Development in Cities (if not taken</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>in core)</td>
<td></td>
</tr>
<tr>
<td>USP 515/</td>
<td>GEOG 667 Environmental Justice: Race, Poverty,</td>
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<td>and the Environment</td>
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#### Long List

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<tr>
<td>AIS 310</td>
<td>American Indian Religion and Philosophy</td>
<td>3</td>
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<td>BECA 502</td>
<td>Environmental Communication on the Electronic</td>
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<tr>
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<td>Media</td>
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<tr>
<td>BIOL 349</td>
<td>Bioethics</td>
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<td>BU 450</td>
<td>Greening of Business</td>
<td>3</td>
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<tr>
<td>CINE 344</td>
<td>Film Genre</td>
<td>3</td>
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<tr>
<td>CST 300/</td>
<td>Introduction to Critical Social Thought</td>
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<td>PLSI 386</td>
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<td>GEOG 425</td>
<td>Economic Geography</td>
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<td>ECON 550</td>
<td>Environmental Economics</td>
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<td>ECON 620</td>
<td>Economic Development</td>
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<tr>
<td>ENGR 220</td>
<td>Energy: Resources, Alternatives, and Conservation</td>
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</table>

### The Urban Environment Emphasis (11–12 units)

The urban environment emphasis provides students with a strong interdisciplinary theoretical and empirical understanding for dealing with environmental issues in urban settings. With the help of an advisor, students obtain depth by selecting elective courses focusing on sustainable urban development, environmental justice, land-use planning, environmental policy, and the urban environment in a global perspective.

Take 11–12 units. Two courses must be from the short list. Courses used to meet other requirements of the major cannot also be used to meet the urban environment emphasis requirements.

#### Short List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOG/USP 433</td>
<td>Urban Transportation</td>
<td>4</td>
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<tr>
<td>GEOG/USP 652</td>
<td>Environmental Impact Analysis</td>
<td>4</td>
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<tr>
<td>GEOG/USP 658</td>
<td>Land-Use Planning</td>
<td>4</td>
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<tr>
<td>USP 514</td>
<td>Sustainable Development in Cities</td>
<td>4</td>
</tr>
<tr>
<td>USP 515/</td>
<td>GEOG 667 Environmental Justice: Race, Poverty,</td>
<td>4</td>
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<th>Course Title</th>
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<tr>
<td>BUS 450</td>
<td>Greening of Business</td>
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<tr>
<td>ENVS 530</td>
<td>Environmental Leadership and Organizing</td>
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<tr>
<td>ECON 550</td>
<td>Environmental Economics</td>
<td>3</td>
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<tr>
<td>ENGR 220</td>
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<td>ENVS 224</td>
<td>Research Methods for Environmental Studies</td>
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<td>ECON/USP 535</td>
<td>Urban Economics</td>
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<td>ENVS 570</td>
<td>Applied Local Sustainability</td>
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<tr>
<td>ENVS 699</td>
<td>Independent Study</td>
<td>1–3</td>
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</table>
Humanities and the Environment Emphasis (11–12 units)

The humanities and the environment emphasis explores the varied and complex ways that different cultures—past and present—view and communicate about the environment. With an advisor, students choose coursework in disciplines dealing with verbal or visual communication, such as communication studies, creative writing, technical and professional writing, ethnic studies, journalism, photography, design, electronic media, and cinema.

Take 11–12 units. Two courses must be from the short list. Courses used to meet other requirements of the major cannot also be used to meet the humanities and the environment emphasis requirements.

Short List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 502</td>
<td>Environmental Communication on the Electronic Media (if not taken in the core)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 535</td>
<td>Literature and Ecology (if not taken in the core)</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 580</td>
<td>Environmental Journalism</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 470</td>
<td>Environmental Ethics (if not taken in the core)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 354</td>
<td>Politics, the Environment, and Social Change</td>
<td>4</td>
</tr>
<tr>
<td>WGS 593</td>
<td>Gender, Health, and the Environment</td>
<td>3</td>
</tr>
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</table>

Long List

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ANTH 321</td>
<td>Endangered Cultures</td>
<td>3</td>
</tr>
<tr>
<td>CINE 344</td>
<td>Film Genre</td>
<td>3</td>
</tr>
<tr>
<td>CINE/H ED 527</td>
<td>Documentary for Health and Social Justice</td>
<td>6</td>
</tr>
<tr>
<td>CST 300/</td>
<td>Introduction to Critical Social Thought</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 386</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 348GW</td>
<td>Writing About Environmental Rhetoric - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 530</td>
<td>Environmental Leadership and Organizing</td>
<td>3</td>
</tr>
<tr>
<td>HIST 476</td>
<td>American Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>HUM 450/</td>
<td>California Culture</td>
<td>3</td>
</tr>
<tr>
<td>AMST 410</td>
<td></td>
<td></td>
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<tr>
<td>HUM 380</td>
<td>Nature and Human Values</td>
<td>3</td>
</tr>
<tr>
<td>I R 334</td>
<td>International Organizations: New World Order</td>
<td>4</td>
</tr>
<tr>
<td>I R 520</td>
<td>Globalization and Development</td>
<td>4</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
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<tr>
<td>LS 460</td>
<td>Childhood, Nature, and Society</td>
<td>1</td>
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<td>LS/HIST 681</td>
<td>Community Service Learning in the Schools</td>
<td>1</td>
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<tr>
<td>PHIL/PLSI 150</td>
<td>Contemporary Moral/Political Issues</td>
<td>3</td>
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<tr>
<td>PHIL 351</td>
<td>Philosophy of Risk</td>
<td>3</td>
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<tr>
<td>PHIL 365</td>
<td>Science and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 383</td>
<td>Ethics in Medicine</td>
<td>3</td>
</tr>
<tr>
<td>SOC 477</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: students may take one of either LS 460 (formerly S S 460) or LS 681 (formerly S S 681) but not both.

Complementary Studies

Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways for students in the environmental studies B.A. program to satisfy the requirement is with one or more languages other than English; partial completion of a minor; partial completion of certificate; or a coherent group of courses approved by a major advisor as complementary to the major.

All complementary studies units must be approved by an advisor and all of the units must be separate from the units used to satisfy major requirements. Courses that fulfill complementary studies units may be lower or upper division units, resident or transfer units, or units taken in approved study abroad programs.

The Environmental Studies Program is impacted. Current students who wish to change their major to Environmental Studies should visit the department office for admission requirements and procedures. See the Environmental Studies website for more information: envs.sfsu.edu/prospective (http://envs.sfsu.edu/prospective).

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>
American Ethnic and Racial Minorities (AERM)  
LD or UD  
3  

Environmental Sustainability (ES)  
LD or UD  
3  

Global Perspectives (GP)  
LD or UD  
3  

Social Justice (SJ)  
LD or UD  
3  

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Arts in Environmental Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 66

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>or CHEM 180</td>
<td>or Chemistry for the Energy and the Environment</td>
<td></td>
</tr>
<tr>
<td>ENVS 224</td>
<td>Research Methods for Environmental Studies</td>
<td>4</td>
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<tr>
<td>Physical Environment – Select One:</td>
<td></td>
<td></td>
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<tr>
<td>ERTH 230</td>
<td>Environmental Geology</td>
<td>3</td>
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<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<tr>
<td><strong>Units</strong></td>
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<td>16-18</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
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<tr>
<td>or Complementary Studies SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
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<td>3</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<tr>
<td><strong>Units</strong></td>
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<td>6</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>BIOL 313</td>
<td>Principles of Ecology</td>
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<tr>
<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution</td>
<td>3</td>
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<tr>
<td>ENVS 300</td>
<td>Environmental Studies</td>
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</tr>
<tr>
<td>Emphasis Electives (11-12 units total)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>ENVS 450GW</td>
<td>Environmental Law and Policy - GWAR</td>
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</tr>
<tr>
<td>Sustainability and Social Justice – Select One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global/International – Select One:</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

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1. This course must be completed before taking BIOL 313.
2. This course must be completed before taking CHEM 380.
3. Subject to the 6-hour upper-division requirement.
4. Subject to the 12-hour upper-division requirement.
5. Subject to the 15-hour upper-division requirement.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENVS/I R 331</td>
<td>Global Environmental Crisis</td>
<td></td>
</tr>
<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy</td>
<td></td>
</tr>
<tr>
<td>GEOG/I R 428</td>
<td>International Political Economy of Food and Hunger</td>
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<tr>
<td><strong>Emphasis Elective (11-12 units total)</strong></td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Complementary Studies or SF State Studies or University Elective</strong></td>
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<td>3</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
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<tr>
<td><strong>Emphasis Elective (11-12 units total)</strong></td>
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<td>3</td>
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<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Complementary Studies or SF State Studies or University Elective – Take Two</strong></td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td><strong>Eighth Semester</strong></td>
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<tr>
<td>ENVS 680</td>
<td>Environmental Studies Internship</td>
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<tr>
<td>ENVS 690</td>
<td>Senior Seminar in Environmental Studies</td>
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</tr>
<tr>
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<td>3</td>
</tr>
<tr>
<td><strong>Complementary Studies or SF State Studies or University Elective</strong></td>
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<td>5</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Complementary Studies
   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)
   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways for students in the environmental studies B.A. program to satisfy the requirement is with one or more languages other than English; partial completion of a minor; partial completion of certificate; or a coherent group of courses approved by a major advisor as complementary to the major.
   All complementary studies units must be approved by an advisor and all of the units must be separate from the units used to satisfy major requirements. Courses that fulfill complementary studies units may be lower or upper division units, resident or transfer units, or units taken in approved study abroad programs.
Emphasis Electives

Environmental Sustainability and Social Justice Emphasis (11–12 units)
The environmental sustainability and social justice emphasis provides students with a theoretical and applied understanding of the issues of sustainability and the connections between social justice and environmental problems and solutions. Students study the roles that values and social, political, and economic structures play in contributing to the environmental crisis. With the help of an advisor, students obtain depth by selecting elective courses from political science, American Indian studies, sociology, philosophy and religion, economics, urban studies and planning, geography, women and gender studies, and other related fields.
Take 11-12 units. Courses used to meet other requirements of the major cannot also be used to meet the environmental sustainability and social justice emphasis requirements.
ENVS 470 Climate Politics and Policy (3 units)
ENVS 530 Environmental Leadership and Organizing (3 units)
ENVS 570 Applied Local Sustainability (3 units)
GEOG 421 Future Environments (3 units)
PLSI 354 Politics, the Environment, and Social Change (4 units)
USP 514 Sustainable Development in Cities (4 units)
USP 515 Environmental Justice: Race, Poverty, and the Environment (4 units)

The Urban Environment Emphasis (11–12 units)
The urban environment emphasis provides students with a strong interdisciplinary theoretical and empirical understanding for dealing with environmental issues in urban settings. With the help of an advisor, students obtain depth by selecting elective courses focusing on sustainable urban development, environmental justice, land-use planning, environmental policy, and the urban environment in a global perspective.
Take 11-12 units. Courses used to meet other requirements of the major cannot also be used to meet the the urban environment emphasis requirements.
GEOG 433 Urban Transportation (4 units)
GEOG 652 Environmental Impact Analysis (4 units)
GEOG 658 Land-Use Planning (4 units)
USP 514 Sustainable Development in Cities (4 units)
USP 515 Environmental Justice: Race, Poverty, and the Environment (4 units)

Humanities and the Environment Emphasis (11–12 units)
The humanities and the environment emphasis explores the varied and complex ways that different cultures—past and present—view and communicate about the environment. With an advisor, students choose coursework in disciplines dealing with verbal or visual communication, such as communication studies, creative writing, technical and professional writing, ethnic studies, journalism, photography, design, electronic media, and cinema.
Take 11–12 units. Courses used to meet other requirements of the major cannot also be used to meet the humanities and the environment emphasis requirements.
Beca 502 Environmental Communication on the Electronic Media (3 units)
ENG 535 Literature and Ecology (3 units)
JOUR 580 Environmental Journalism (3 units)
PHIL 470 Environmental Ethics (3 units)
PLSI 354 Politics, the Environment, and Social Change (4 units)
WGS 593 Gender, Health, and the Environment (3 units)

5

Sustainability and Social Justice
ENVS 306 Economics and the Environment (3 units)
ENVS 570 Applied Local Sustainability (3 units)
PHIL 470 Environmental Ethics (3 units)
USP 514 Sustainable Development in Cities (4 units)
USP 515 Environmental Justice: Race, Poverty, and the Environment (4 units)
Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation

The Bachelor of Science in Environmental Studies Concentration in Natural Resource Management and Conservation provides students with the theoretical and applied knowledge and skills in ecology, conservation biology, and natural resources they need to address natural resource management and conservation issues. Required courses provide knowledge in ecology, conservation biology, statistics, and natural resource management and provide students with a solid background in both quantitative and qualitative problem-solving techniques. Students choose additional coursework in ecology, biodiversity studies, applied methods, and management of specific resources.

Environmental Studies (B.S.): Concentration in Natural Resource Management and Conservation — 65–74 units

Required Courses (41–44 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>or CHEM 180</td>
<td>Chemistry for the Energy and the Environment</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
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<tr>
<td>BIOL 530</td>
<td>Conservation Biology</td>
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</tr>
<tr>
<td>ENVS 224</td>
<td>Research Methods for Environmental Studies</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 300</td>
<td>Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 450GW</td>
<td>Environmental Law and Policy - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 680</td>
<td>Environmental Studies Internship</td>
<td>1</td>
</tr>
<tr>
<td>ENVS 690</td>
<td>Senior Seminar in Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3-4</td>
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<tr>
<td>GEOG 603</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/USP 652</td>
<td>Environmental Impact Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/USP 658</td>
<td>Land-Use Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/ENVS 657</td>
<td>Natural Resource Management: Biotic Resources</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Courses (24–30)

Students must consult with a faculty advisor prior to selection of elective courses to determine which courses are most appropriate for the students’ particular program. Choose one course from each category.

Physical Environment

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 230</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

Sustainability and Social Justice

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENVS/ECON 306</td>
<td>Economics and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 570</td>
<td>Applied Local Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 470</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>USP 514</td>
<td>Sustainable Development in Cities</td>
<td>4</td>
</tr>
</tbody>
</table>

USP 515/ GEOG 667 | Environmental Justice: Race, Poverty, and the Environment | 4 |

Global/International

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS/I R 431</td>
<td>Global Environmental Crisis</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>I R/GEOG 428</td>
<td>International Political Economy of Food and Hunger</td>
<td>4</td>
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</table>

Ecology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 482</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 529GW</td>
<td>Plant Ecology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 532</td>
<td>Restoration Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Wetland Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 582</td>
<td>Biological Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 585</td>
<td>Marine Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>

Biodiversity

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 470</td>
<td>Natural History of Vertebrates</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 475GW</td>
<td>Herpetology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 478GW</td>
<td>Ornithology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 504</td>
<td>Biology of the Fungi</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 514</td>
<td>Plant Taxonomy</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 570GW</td>
<td>Biology of Fishes - GWAR</td>
<td>4</td>
</tr>
</tbody>
</table>

Or a second course chosen from the Ecology section

Resources

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 317</td>
<td>Geography of Soils</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 427</td>
<td>Agriculture and Food Supply</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 646</td>
<td>The Geography of Marine Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 647</td>
<td>Geography of Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 666</td>
<td>Geography of Garbage: Recycling and Waste Reduction</td>
<td>3</td>
</tr>
<tr>
<td>RPT/ENVS 640</td>
<td>Recreational Use of National Parks and Protected Areas</td>
<td>3</td>
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</tbody>
</table>

Resource Policy and Techniques

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 530</td>
<td>Environmental Leadership and Organizing</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 570</td>
<td>Applied Local Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENVS/ECON 306</td>
<td>Economics and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/USP 652</td>
<td>Environmental Impact Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/USP 658</td>
<td>Land-Use Planning</td>
<td>4</td>
</tr>
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</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
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<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
</tbody>
</table>
www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation

San Francisco State University Bulletin 2017-2018

Mathematics/Quantitative Reasoning
Arts
Arts or Humanities
Humanities: Literature
Social Sciences
Social Sciences: US History
Social Sciences: US & CA Government
Lifelong Learning and Self-Development (LLD)
Physical and/or Life Science
Arts and/or Humanities
Social Sciences

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES) | LD or UD | 3 |
| Global Perspectives (GP) | LD or UD | 3 |
| Social Justice (SJ) | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 65

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) (^1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) (^2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
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</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115 or CHEM 180</td>
<td>General Chemistry I: Essential Concepts of Chemistry or Chemistry for the Energy and the Environment</td>
<td>3-5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td>Units</td>
<td>14-16</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td>Units</td>
<td>17</td>
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<tr>
<td>ENVS 224</td>
<td>Research Methods for Environmental Studies</td>
<td>4</td>
</tr>
<tr>
<td>Physical Environment – Select One:</td>
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<td>3</td>
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<tr>
<td>ERTH 230</td>
<td>Environmental Geology</td>
<td></td>
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<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td>Units</td>
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<td>BIOL 458</td>
<td>Biometry</td>
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<tr>
<td>ENVS 300</td>
<td>Environmental Studies</td>
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<tr>
<td>Ecology – Select One (^3)</td>
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<td>3-4</td>
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<tr>
<td>Biodiversity – Select One (^4)</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td>Units</td>
<td>13-16</td>
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<tr>
<td>BIOL 530</td>
<td>Conservation Biology</td>
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<tr>
<td>ENVS 450GW</td>
<td>Environmental Law and Policy - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Sustainability and Social Justice – Select One (^5)</td>
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<td>3-4</td>
</tr>
<tr>
<td>Global/International – Select One:</td>
<td>3-4</td>
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</tr>
<tr>
<td>----------------------------------</td>
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<td></td>
</tr>
<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy</td>
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</tr>
<tr>
<td>ENVS/IR 331</td>
<td>Global Environmental Crisis</td>
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</tr>
<tr>
<td>GEOG/IR 428</td>
<td>International Political Economy of Food and Hunger</td>
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</table>

**GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)**

| Units | 15-17 |

**Seventh Semester**

<table>
<thead>
<tr>
<th>Select One:</th>
<th>3</th>
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<tbody>
<tr>
<td>GEO 603</td>
<td>Introduction to Geographic Information Systems</td>
</tr>
<tr>
<td>GEO 652</td>
<td>Environmental Impact Analysis</td>
</tr>
<tr>
<td>GEO 658</td>
<td>Land-Use Planning</td>
</tr>
</tbody>
</table>

**Resources – Select One**

| GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) | 3 |
| GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course) | 3 |
| SF State Studies or University Elective | 3 |

| Units | 15-16 |

**Eighth Semester**

| ENVS 680 | Environmental Studies Internship |
| ENVS 690 | Senior Seminar in Environmental Studies |
| GEOG/ENVS 657 | Natural Resource Management: Biotic Resources |

**Resource Policy and Techniques – Select One**

| SF State Studies or University Elective | 2 |

| Units | 15-16 |

| Total Units | 120-129 |

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1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Ecology**
   - BIOL 482 Ecology (4 units)
   - BIOL 529GW Plant Ecology - GWAR (4 units)
   - BIOL 532 Restoration Ecology (3 units)
   - BIOL 534 Wetland Ecology (4 units)
   - BIOL 582 Biological Oceanography (4 units)
   - BIOL 585 Marine Ecology (3 units)

4. **Biodiversity**
   - BIOL 470 Natural History of Vertebrates (4 units)
   - BIOL 475GW Herpetology - GWAR (3 units)
   - BIOL 478GW Ornithology - GWAR (4 units)
   - BIOL 504 Biology of the Fungi (4 units)
   - BIOL 514 Plant Taxonomy (5 units)
   - BIOL 570GW Biology of Fishes - GWAR (4 units)
   - Or a second course chosen from the Ecology section

5. **Sustainability and Social Justice**
   - ENVS 306 Economics and the Environment (3 units)
   - ENVS 570 Applied Local Sustainability (3 units)
   - PHIL 470 Environmental Ethics (3 units)
   - USP 514 Sustainable Development in Cities (4 units)
   - USP 515 Environmental Justice: Race, Poverty, and the Environment (4 units)
6  Resources
   CHEM 380 Chemistry Behind Environmental Pollution (3 units)
   GEOG 317 Geography of Soils (4 units)
   GEOG 427 Agriculture and Food Supply (4 units)
   GEOG 646 The Geography of Marine Resources (4 units)
   GEOG 647 Geography of Water Resources (4 units)
   GEOG 666 Geography of Garbage: Recycling and Waste Reduction (3 units)
   RPT 640 Recreational Use of National Parks and Protected Areas (3 units)

7  Resource Policy and Techniques
   ENVS 470 Climate Politics and Policy (3 units)
   ENVS 530 Environmental Leadership and Organizing (3 units)
   ENVS 570 Applied Local Sustainability (3 units)
   ENVS 306 Economics and the Environment (3 units)
   GEOG 652 Environmental Impact Analysis (4 units)
   GEOG 658 Land-Use Planning (4 units)
GERONTOLOGY

College of Health and Social Sciences
Dean: Alvin Alvarez

School of Public Affairs and Civic Engagement
Director: Elizabeth Brown

Gerontology Program
HSS 210
Phone: (415) 338–1684
Fax: (415) 405–0771
Email: sfsguro@sfu.edu

Gerontology Program Coordinator: Darlene Yee-Melichar

Program Scope

Purpose
The Gerontology Program is administratively housed in the College of Health and Social Sciences (CHSS), and enjoys close collaborative relationships with other units throughout the college, University, and with the communities it serves. The Master of Arts (M.A.) in Gerontology is an applied, professional program designed for students preparing for a career in the field of aging, or a related human service field, who wish to improve their knowledge and skills. Course work leading to the M.A. in Gerontology is designed to:

- emphasize the broad, interdisciplinary nature of issues which relate to and influence older adults;
- provide students with the academic background, professional experience, and research capabilities necessary to pursue advanced study at the doctoral level; and
- prepare students for professional practice and leadership positions in the public and private sectors where gerontological knowledge is required.

History and Philosophy
The Master of Arts in Gerontology program at SF State was established in 1986 and is the first, and thus the oldest, graduate program in Gerontology in the California State University and the University of California systems. The program is dedicated to the higher education of professionals using an interdisciplinary approach to serve the present and future needs of society in meeting the multiple challenges of an aging population; the conduct of applied research to increase the body of knowledge about issues and processes of aging; and the application of the discipline of gerontology in the community to advocate for improving the quality of care and quality of life for the aged.

The academic program adheres to the standards and guidelines established by the Association for Gerontology in Higher Education (AGHE) for professional master’s level programs. In addition, the program faculty has advised active student organizations such as student chapters of the American College of Health Care Administrators (ACHCA), Gerontological Society of America (GSA), and Sixty Plus (lifelong learning for students age 60 and over). The program provides a gerontology library and shared meeting place for student activities.

Applied, Skill-Based Professional Education
The Gerontology program emphasizes an applied, skill-based approach to professional education. To do this, it draws upon the strengths of the university and community as well as the expertise of the faculty.

The program resides in a richly diverse, multicultural environment which provides a natural laboratory for understanding and developing competencies around the aging experiences of different ethnic groups.

Students obtain knowledge of the discipline and its theoretical foundations. Students are prepared with tools which allow them to use quantitative and qualitative methods in applied research for solving a variety of practical problems in the community.

Gerontology at SF State includes advocacy for the aged in the continuum of care and actively engages in activities through links with other professionals to provide a comprehensive model of consumer-driven health and human services. Students can participate in learning and service where skills of needs assessment, program development, implementation and evaluation directly contribute to the community’s well-being.

Career Outlook
Gerontology is one of the fastest growing disciplines within the field of Health and Human Services. Current demographic projections indicate that California will experience a doubling of the population over the age of 65 by the year 2020; furthermore, of all age groups, the group over age 85, the oldest old, is increasing at the greatest rate. Not only will there be greater numbers of older persons by 2020, they will be increasingly single, female, and ethnically diverse. A Master of Arts (M.A.) in Gerontology prepares the student for effective performance in a career of service to older Americans. It also lays a firm academic foundation in applied gerontology for students who choose to work toward a doctoral degree. Students have the opportunity to choose a number of career paths in the field of aging within the public and private sectors.

For example, Geriatric Care Managers (GCMs) are among the most highly sought gerontological professionals in the United States. GCMs are hired by a variety of community-based agencies, private care management organizations and many GCMs are starting their own businesses. A GCM practice particularly lends itself to the entrepreneur who wishes to begin a small business to serve the community need. GCMs are certified and supported by the National Association of Professional Geriatric Care Managers. This professional association provides an interactive web site that links family members with certified care managers and offers high quality continuing education.

Health, wellness and aging programs and services are examples of the frontiers of applied research and recent federal funding via the Centers for Disease Control and Prevention. Programs of health promotion are currently being created and funded in both the private and public sectors and accumulating research describes a direct link between health and wellness and lifestyle choices. Senior centers, retirement communities, long-term institutions and professional organizations serving older persons now recognize the need for making wellness a priority in planning, programs and services. Health and wellness are also new priorities for school children and adults and students may explore career opportunities for intergenerational practice. Students choosing a Gerontology emphasis in health, wellness and aging are prepared for professional practice in local, state and federal government, the for-profit and not-for-profit sectors and organizations from AARP to the YMCA.
Long-term care administration (LTCA) is a career opportunity in a period of expansion and diversification. Professional requirements vary widely depending on state and federal regulations for the specific area of administration. Long-term care administrators manage and direct the daily operations of long-term care facilities. Employment opportunities for long-term care administrators are available and may be found in assisted living facilities, geriatric care centers, home health care agencies, hospice facilities, hospital systems, rehabilitation facilities, residential care facilities for the elderly, retirement communities, senior centers, skilled nursing facilities, and special population programs (AIDS and mental health).

Professors
de Vries, Takagi, Yee-Melichar

Lecturers
Cabigao, Flores, Harris, McGinnis, Scott

Masters
• Master of Arts in Gerontology (p. 507)

Master of Arts in Gerontology

Graduate Advisors: de Vries, Takagi, Yee-Melichar

The Master of Arts in Gerontology consists of 33 units which include ten required core courses and one elective course. The required internship (6 units), included in the core consists of student placement in an off-campus facility or organization. Numerous facilities and organizations collaborate with the graduate program in offering internships in clinical, community and institutional settings. The required culminating experience (3 units) also included in the core, consists of a culminating project course integrating bodies of knowledge from the required courses. This usually translates into a two-year academic program.

Admission to Program

A prospective student must fulfill the general University requirements as stated in the section of the Graduate and Post-baccalaureate Admissions of this Bulletin. To be considered for unconditional admission to the M.A. in Gerontology, the applicant must have completed an undergraduate major in an appropriate field with a minimum grade point average of 3.0. Applicants whose undergraduate major did not include gerontology courses should consult the graduate coordinator about prerequisite courses in gerontology. If the applicant’s undergraduate record meets the basic requirements and gives promise of a successful pursuit of graduate work, the program will recommend admission to graduate classified status or graduate conditionally classified status specifying the conditions and time limit within which they must be met.

Students will be expected to meet the following criteria:
• Meet the admissions standards of the University.
• Have an earned undergraduate grade point average of 3.0.
• Have completed an introductory course in gerontology or its equivalent.
• Have documented experience or competence in interpersonal/group communication skills as demonstrated in a personal interview with the admissions committee, letters of recommendation, or course work.
• Have completed a course in statistics with a grade of C or better. Competence may be demonstrated by passing a statistics proficiency test.
• Three letters of recommendation from faculty and/or employers.

Written English Proficiency Requirement

Level One Preadmission
Indicate the ability to write in a proficient manner by satisfactorily completing the GRE with a passing score of at least 4.0. Prospective students will also be required to submit a written statement of purpose for pursuing the graduate degree in gerontology. Applicants who do not pass the GRE, or who do not submit a well-written statement of purpose, will be advised to enhance their writing proficiency by taking a prerequisite course and then reapply to the program.

Level Two
Indicate the ability to write in a scholarly manner in the discipline by satisfactorily completing GRN 890 for the culminating experience requirement.

Requirements for Graduation

• Meet all general requirements for submission of the Advancement to Candidacy (ATC).
• Successfully complete core and elective courses.
• Successfully complete GRN 838/GRN 839, and GRN 890. Students are required to complete GRN 890 as their capstone or culminating experience. In this course, students will prepare and present an integrative paper on a topic of professional relevance. Each student paper requires a second reader, thus fulfilling culminating experience Graduate Division requirements and ensuring both breadth and comprehension. If necessary, students must maintain continuous enrollment in GRN 897 until they have completed their culminating experience requirements.
• Demonstrate ability to maintain a 3.0 grade point average in graduate study.
• With the assistance of a Gerontology program advisor, choose a faculty committee that will be responsible for evaluating the oral presentation and written paper in the integrative seminar.

Gerontology (M.A.) — 33 units

Required Courses (30 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRN 705</td>
<td>Aging in a Multidimensional Context</td>
<td>3</td>
</tr>
<tr>
<td>GRN 710</td>
<td>Aging Processes: Health and Human Services</td>
<td>3</td>
</tr>
<tr>
<td>GRN 715</td>
<td>Age and Social Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GRN 725</td>
<td>Aging and Diversity</td>
<td>3</td>
</tr>
<tr>
<td>GRN 735</td>
<td>Ethical and Legal Issues in Aging and Social Services</td>
<td>3</td>
</tr>
<tr>
<td>GRN 760</td>
<td>Research Methods in Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GRN 765</td>
<td>Aging and Continuum of Care</td>
<td>3</td>
</tr>
<tr>
<td>GRN 838</td>
<td>Gerontology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>GRN 839</td>
<td>Gerontology Internship</td>
<td>3</td>
</tr>
<tr>
<td>GRN 890</td>
<td>Integrative Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective (3 units)
An elective course may be chosen from various graduate programs, including Consumer & Family Studies/Dietetics; Counseling; Criminal Justice, Environmental Studies, Health Education; Kinesiology; Nursing;
Recreation, Parks, and Tourism; Management; Public Administration; Social Work; and Urban Studies and Planning.
HEALTH EDUCATION

College of Health and Social Sciences
Dean: Alvin Alvarez

Department of Health Education
HSS 326
Phone: (415) 338–1413
Email: hed@sfsu.edu

Undergraduate Advising Email: hedadv@sfsu.edu
MPH Program Email: hedmph@sfsu.edu
Website: healthed.sfsu.edu (http://healthed.sfsu.edu)

Chair: Mary Beth Love
Graduate Program Coordinator: Vincent Lam
Undergraduate Program Coordinator: Ingrid Ochoa
IHHS Certificate Program Coordinator: Adam Burke

Institute for Holistic Health Studies
Holistic Health Studies Program
HSS 326
Phone: (415) 338–1413
Fax: (415) 338–0570
Email: ihhs@sfsu.edu (hed@sfsu.edu)
Website: sfu.edu/~ihhs (http://www.sfsu.edu/~ihhs)
Director: Adam Burke

Program Scope

Mission
The mission of the Health Education Department at San Francisco State University is to promote health and health equity at the individual, community, and structural levels through transformative education, research, scholarship, and service, all of which value diversity, engage communities and are grounded in cultural humility.

The Department's Institute for Holistic Health Studies (IHHS) offers a model program in undergraduate education, integrative health care, self-care, and the role of holistic perspectives in health and well-being. IHHS seeks to provide the University and its broader community with knowledge and skills that encourage and support health through natural means focusing on a rich cross-cultural, transhistorical vision of human potential.

Together, the health education faculty have developed a unique learning context designed to prepare students for entry and master's level positions in health and human services careers, including professional public health educator, and the emerging field of integrative medicine. The department enhances the preparation of students for these careers through exposure to applied scholarship, active engagement in participatory learning, and the thoughtful integration of theory, research, and practice.

The ultimate aim of the program is to explore, implement, and disseminate best practices in public health and holistic health, and to prepare leaders capable of advancing the work of disease prevention and health promotion in culturally appropriate and globally conscious ways.

Advising
Undergraduate health education majors and Master of Public Health students have consistent access to advisors to assist with timely completion of required coursework, as well as to address curricular, programmatic and professional development questions or concerns.

Supplemental Credential
Individuals who already possess a single subject credential in another area may add health sciences to their existing teaching credential by completing a specified number of semester hours in health sciences. Individuals seeking a supplemental credential should seek the assistance of an advisor in the health education department.

Metro College Success Program
Metro Academy of Health

The Metro Academy of Health (Metro) supports the first and second-year students in achieving academic excellence while preparing them to become leaders in their communities. Metro students are placed in a small community of peers who take two or three courses together each semester for their first two years of college. Students receive extra tutoring, advising and support in developing strong academic skills. The program prepares students to write effectively, speak powerfully, and think critically. Participants in the Metro Academy of Health are geared toward those interested in a career in public health, community health education, social services, the non-profit sector, clinical health professions or community organizing. Metro courses satisfy general education requirements for all majors at SF State, so you can go on to complete your bachelor's degree in any major. Metro's goal is to help you graduate in a timely manner and gain the skills you need to succeed in college and find a meaningful career. Students begin the program with a first-year experience course orienting them to resources available at the university that will help them succeed and to urban health and human rights. Please see our website at metro.sfsu.edu or email us metro@sfsu.edu for more information about joining.

Career Outlook
A variety of career opportunities are open to individuals graduating from the Bachelor of Science program. Results from a recent survey of program graduates indicate that in addition to positions specifically titled health educator, many also hold positions as program planners, assistant administrators, assistant personnel directors, in-service education coordinators, community outreach workers, health counselors, health writers, environmental workers, and pharmaceutical-medical detail professionals. Employers include hospitals, government and voluntary agencies, school districts, private industries, and some individuals are self-employed.

Graduates of the B.S. in Health Education program also select careers outside the health care field. The professional skills developed in the degree programs have numerous applications in non-health employment settings. Additionally, some health education graduates continue graduate studies in public health, administration, social services, dentistry, medicine, and law.

Holistic Health Studies, as a minor, emphasis area, or certificate program is a practical career choice on many levels. As a result of growing national interest in complementary and alternative health practices, there are expanding opportunities in the areas of medical care, health promotion, and consumer demand for more natural products and services. Healthcare providers, such as nurses, physicians, pharmacists, and psychologists, need to understand the use of alternative health
practices by their patients. There is an increasing need for practitioners in emerging healthcare fields, including naturopathy and acupuncture. Innovative approaches to health promotion and lifestyle that incorporate alternative and complementary health practices are also becoming increasingly important, leading to career opportunities in business, teaching, research and counseling. A Minor or Certificate in Holistic Health Studies provides an understanding of important holistic health concepts and practices relevant to many health and social service related careers.

Graduates of the Master of Public Health program in Community Health Education are prepared for advanced level public health professional positions in diverse settings, such as a variety of community-based organizations, government agencies including public health departments, academic and research institutions, health maintenance organizations, hospitals and medical centers, and private consulting firms. Nationally, the emphasis is on prevention and population-based management of health, making the professional skills of community health educators a market demand.

Professors
Burke, Castelliblanche, Eliason, Love, Mamo, Peper

Associate Professors
Chávez, Harvey, Moore, Sanchez-Vaznaugh, van Olphen

Assistant Professors
Cushing, Daubenmier, Martinson, Rebalan

Lecturers
Allen, Arista, Bhatnagar, Burrows, Chen, Craig, Evans, Kroboth, Lam, Mousel, Ochoa, Quijano, Rath, Schwartz, Turalba, Wolin

 Majors
- Bachelor of Science in Health Education (p. 510)

 Minors
- Minor in Health Education (p. 521)
- Minor in Holistic Health Studies (p. 522)
- Minor in Women’s Health Studies (p. 522)

 Certificates
- Certificate in Holistic Health Studies (p. 521)

 Masters
- Master of Public Health (p. 523)

 Bachelor of Science in Health Education

 Bachelor of Science

The Bachelor of Science in Health Education program is designed to facilitate voluntary changes in individual health behaviors as well as to advocate for social and economic policies which lead to health promotion and disease prevention for all. This program prepares individuals to work as public health professionals at individual, community and structural levels for health equity and social justice. The program provides a participatory learning environment that integrates theory, research and practice, honors diversity through a cultural humility lens, and fosters collaboration, critical thinking and communication skills.

The course work and field experience in health education have three primary objectives:
1. to provide a theoretical and philosophical foundation in principles of community health education;
2. to facilitate the development of professional skills in program planning, implementation, and evaluation; and
3. to offer broad course work in personal, community, and school health. Students are also expected to complete course work in biological, social, and behavioral sciences.

The Bachelor of Science in Health Education has 11 units of prerequisites, 42 core units and 9 - 12 emphasis elective units to be chosen in one of the three areas described below. The program curriculum is designed in four semester tiers, where the content, knowledge, and skills required for students are scaffolded both within the courses offered in that semester and sequential semester.

Emphasis Elective Areas (9–12 units)

Community-based Public Health (9 units)
An approach that unites the community by organizing, empowering, and participating in shared-leadership partnerships for health. This emphasis gives students the freedom to choose electives from their particular health-related area of interest. Students design programs rooted in the values, experiences, knowledge, and interests of the community itself.

Holistic Health Studies (12 units)
Explores diverse cultural, historical, and interdisciplinary concepts and practices from around the world, providing students with a deeper understanding of health, healing, and optimal well-being. A holistic perspective informs course content, recognizing the fundamental interdependence of life on this planet. Experiential learning is an essential component of the curriculum.

School Health (12 units)
Fills the need created by recent increases in demand for credentialed teachers in public schools. The emphasis provides essential course work that satisfies the newly developed California State Standards in Health Science. Upon graduation, students will be ready to enter the teaching credential program with virtually all course work in the single subject program completed.

The following foundation courses or their equivalents must be completed prior to graduation. While it is not mandatory to complete the foundation courses before taking the core courses, individuals are encouraged to work toward completion of foundation courses prior to their junior year. Students entering from the community college system, or other four-year universities, should have their transcripts evaluated by a department advisor to receive credit for equivalent courses taken elsewhere. To determine whether courses taken at another college or university may be accepted as foundation courses, individuals should seek the assistance of an advisor in the Department of Health Education. Some foundation courses may be counted for SF State general education credit; a health education advisor will help determine this. Effective Fall 2008, undergraduates who are first-time college students may satisfy the GWAR (Graduation Writing Assessment Requirement) by earning a C or better in a GWAR-designated course. The Health Education GWAR course is H ED 400GW. For undergraduates who are first-time college students prior to Fall 2008, this requirement can be
met by passing ENG 414, ENG 410 or ENG 411. Students must pass ENG 414/ENG 410/ENG 411 before enrolling in H ED 431.

1 Students who have satisfied GWAR in a discipline other than Health Education are still required to complete H ED 400GW of the major.

### Health Education (B.S.) — 62–65 units

#### Foundation Courses for the Major (11 units)
Courses taken prior or concurrently with major courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>Human Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>General Microbiology and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>General Microbiology and Public Health Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics (another course may be substituted on advisement)</td>
<td>3</td>
</tr>
<tr>
<td>or ISED 160</td>
<td>Data Analysis in Education</td>
<td></td>
</tr>
</tbody>
</table>

#### Required Courses (39 units)

**Sequenced Courses**

Must be taken in sequential order, except H ED 400GW, H ED 405, and H ED 425 which must be taken concurrently.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 400GW</td>
<td>Community Assessment in Public Health - GWAR 1</td>
<td>3</td>
</tr>
<tr>
<td>H ED 405</td>
<td>Introduction to Community/Public Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 425</td>
<td>Introduction to Research and Statistics in Health 1</td>
<td>3</td>
</tr>
<tr>
<td>H ED 430</td>
<td>Community Health Education Theory 1</td>
<td>3</td>
</tr>
<tr>
<td>H ED 431</td>
<td>Program Planning, Implementation, and Evaluation 1</td>
<td>3</td>
</tr>
<tr>
<td>H ED 480</td>
<td>Fieldwork and Reflective Seminar 1</td>
<td>9</td>
</tr>
</tbody>
</table>

1 Must be completed with a grade of C or better

**Non-Sequenced Courses**

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 210</td>
<td>Personal and Social Determinants of Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED/HH 290</td>
<td>Promoting Positive Health</td>
<td></td>
</tr>
<tr>
<td>HH 205</td>
<td>Relaxation and Stress Reduction</td>
<td></td>
</tr>
<tr>
<td>HH 380</td>
<td>Holistic Health: Western Perspectives</td>
<td></td>
</tr>
<tr>
<td>H ED 410</td>
<td>Organization and Function of Health Services</td>
<td>3</td>
</tr>
<tr>
<td>or H ED 450</td>
<td>Policy Issues in Health Education</td>
<td></td>
</tr>
<tr>
<td>H ED 420</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>H ED 455</td>
<td>Community Organizing and Community Building for Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 520</td>
<td>Structural Oppression and Social Foundations of Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 655</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Emphasis (9–12 units)

Courses taken for core requirements cannot double count as electives. Units selected from one of the emphases listed below.

**Community-Based Public Health Emphasis (9 units)**
Units selected from the following on advisement (one course must have an H ED prefix):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 591</td>
<td>Asian American Community Health Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**AFRS 370** Health, Medicine, and Nutrition in the Black Community 3
**ANTH 630** Medical Anthropology 3
**BIOL 326** Disease! 3
**BIOL 327** AIDS: Biology of the Modern Epidemic 3
**BIOL 332** Health Disparities in Cancer 3
**H ED 100** Public Health Biology 3
**H ED 200** Global Health 3
**H ED 210** Personal and Social Determinants of Health 3
**H ED 221** Health and Social Justice - Burning Issues, Taking Action 3
**H ED 241** Health and Social Movements in the United States in the 20th Century 3
**H ED/COUN 280** Empowering Poor Families to Graduate Out of Poverty 3
**H ED/HH 290** Promoting Positive Health 3
**H ED 303** Health Disparities and Sexual and Gender Minority Communities: LGBTQI Health 3
**H ED 305** Critical History of Public Health in the United States 3
**H ED 315** Drugs and Society 3
**H ED 320** Contemporary Sexuality 3
**H ED 414** Women’s Health - Problems and Issues 3
**H ED 415** Health Aspects of Aging 3
**H ED 417** AIDS: Contemporary Health Crisis 3
**H ED/GEOG 434** Geographies of Health and Health Care 3
**H ED 450** Policy Issues in Health Education 3
**H ED/CINE 527** Documentary for Health and Social Justice I 6
**H ED/CINE 528** Documentary for Health and Social Justice II 6
**H ED 630** Elementary School Health 3
**H ED 635** Secondary School Health 1
**H ED 640** Structural Inequities and Public Health 3
**H ED 650** Training and Education Processes in Public Health 3
**H ED 670** Principles of Peer Health Education 3
**H ED 671** Practice of Peer Health Education 3
**H ED 685** Projects in the Teaching of Health Education 1-4
**H ED 699** Independent Study 1-3
**HH 205** Relaxation and Stress Reduction 3
**HH 380** Holistic Health: Western Perspectives 3
**HH 381** Holistic Health: Eastern Perspectives 3
**HH 382** Holistic Health: Human Nature and Global Perspectives 3
**HH 430** Foundation of Biofeedback and Self-Regulation 3
**HH 433** Autogenic Training and Embodied Living 3
**HH 540** Meditation and Imagery in Healing 3
**HH 690** Seminar: Psychophysiology of Healing 3
**LTNS 210** Latina/Latino Health Care Perspectives 3
**PHIL 383** Ethics in Medicine 3
**PSY 442** Health Psychology 3
**PSY 465** The Psychology of Work-Life Stress 3
**WGS 593** Gender, Health, and the Environment 3
School Health Emphasis (12 units)
Units selected from the following on advisement:

- DFM 253 Nutrition in Health and Disease 3
- CFS 355 Nutrition for Wellness 3
- CFS 453 Nutrition in the Life Cycle 3
- H ED 210 Personal and Social Determinants of Health 3
- H ED 315 Drugs and Society 3
- H ED 320 Contemporary Sexuality 3
- H ED 630 Elementary School Health 3
- H ED 635 Secondary School Health 1
- H ED 685 Projects in the Teaching of Health Education 1-4
- H ED 699 Independent Study 1-3

Holistic Health Studies Emphasis (12 units)
Units selected from the following on advisement:

Select nine units of the following:
- HH 380 Holistic Health: Western Perspectives
- HH 381 Holistic Health: Eastern Perspectives
- HH 382 Holistic Health: Human Nature and Global Perspectives
- HH 383 Chinese Perspectives in Holistic Health

Select three units of the following on advisement:
- HH 200 Holistic Approach to Academic Success
- HH 205 Relaxation and Stress Reduction
- HH 210 The Dao of Well-Being in Chinese Tradition
- HH/H ED 290 Promoting Positive Health
- HH 420 Chinese Body-Mind Energetics
- HH 430 Foundation of Biofeedback and Self-Regulation
- HH 433 Autogenic Training and Embodied Living
- HH 450 Somatic Education and Holistic Health
- HH 530 Herbal and Nutritional Principles in Chinese Healing
- HH 535 Western Nutrition and Herbs
- HH 540 Meditation and Imagery in Healing
- HH 545 Imagery and Healing in Tibetan Culture
- HH 560 Naturopathic Medicine and Personal Wellness
- HH 650 Anthroposophical Health Studies
- HH 660 Art as Healing
- HH 670 Alternative Health Practices
- HH 680 Holistic Health Internship Seminar
- HH 690 Seminar: Psychophysiology of Healing
- HH 699 Independent Study

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
</tbody>
</table>

Life Science       | LD           | 3     | B2               |
Lab Science        | LD           | 1     | B3               |
Mathematics/Quantitative Reasoning | LD           | 3     | B4               |
Arts              | LD           | 3     | C1               |
Arts or Humanities | LD           | 3     | C1 or C2         |
Humanities: Literature | LD           | 3     | C3               |
Social Sciences    | LD           | 3     | D1               |
Social Sciences: US History | LD           | 3     | D2               |
Social Sciences: US & CA Government | LD           | 3     | D3               |
Lifelong Learning and Self-Development (LLD) | LD or UD | 3     | E                |
Physical and/or Life Science | UD           | 3     | UD-B             |
Arts and/or Humanities | UD           | 3     | UD-C             |
Social Sciences    | UD           | 3     | UD-D             |

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3     |
Environmental Sustainability (ES) | LD or UD | 3     |
Global Perspectives (GP) | LD or UD | 3     |
Social Justice (SJ) | LD or UD | 3     |

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 515)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Public Health Science. This roadmap opens in a new tab. (p. 519)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Public Health Science

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California
Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division#A3AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
### Bachelor of Science in Health Education Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 62

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics or Data Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>or ISED 160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 100 &amp; BIOL 101</td>
<td>Human Biology and Human Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1)</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 210 &amp; BIOL 211</td>
<td>General Microbiology and Public Health Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H ED 210</td>
<td>Personal and Social Determinants of Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED/HH 290</td>
<td>Promoting Positive Health</td>
<td></td>
</tr>
<tr>
<td>HH 205</td>
<td>Relaxation and Stress Reduction</td>
<td></td>
</tr>
<tr>
<td>HH 380</td>
<td>Holistic Health: Western Perspectives</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H ED 400GW</td>
<td>Community Assessment in Public Health - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>H ED 405</td>
<td>Introduction to Community/Public Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 425</td>
<td>Introduction to Research and Statistics in Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 655</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 410</td>
<td>Organization and Function of Health</td>
<td>3</td>
</tr>
<tr>
<td>or H ED 450</td>
<td>Services or Policy Issues in Health Education</td>
<td></td>
</tr>
<tr>
<td>H ED 420</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>H ED 430</td>
<td>Community Health Education Theory</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9–12 units total) – Take one $^{4,5,6}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Units** 15

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 431</td>
<td>Program Planning, Implementation, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>H ED 455</td>
<td>Community Organizing and Community Building for Health</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9–12 units total) – Take two $^{4,5,6}$</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Units** 15

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 480</td>
<td>Fieldwork and Reflective Seminar</td>
<td>9</td>
</tr>
<tr>
<td>H ED 520</td>
<td>Structural Oppression and Social Foundations of Health</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (9–12 units total) if not already satisfied $^{4,5,6}$</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Units** 15

**Total Units** 120

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1. Another course may be substituted for MATH 124 on advisement.
2. All LL and SF State Studies requirements (AERM, GP, ES, SJ) is met within the major.
3. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
**Community-Based Public Health Emphasis (9 units)**
Units selected from the following on advisement (one course must have an HED prefix):
- AA S 591 Asian American Community Health Issues (3 units)
- AFRS 370 Health, Medicine, and Nutrition in the Black Community (3 units)
- ANTH 630 Medical Anthropology (3 units)
- BIOL 326 Disease! (3 units)
- BIOL 327 AIDS: Biology of the Modern Epidemic (3 units)
- BIOL 332 Health Disparities in Cancer (3 units)
- HED 100 Public Health Biology (3 units)
- HED 200 Global Health (3 units)
- HED 210 Personal and Social Determinants of Health (3 units)
- HED 223 Health and Social Justice - Burning Issues, Taking Action (3 units)
- HED 241 Health and Social Movements in the United States in the 20th Century (3 units)
- HED 280/COUN 280 Empowering Poor Families to Graduate Out of Poverty (3 units)
- HED 290/HH 290 Promoting Positive Health (3 units)
- HED 305 Critical History of Public Health in the United States (3 units)
- HED 315 Drugs and Society (3 units)
- HED 320 Contemporary Sexuality (3 units)
- HED 414 Women's Health - Problems and Issues (3 units)
- HED 415 Health Aspects of Aging (3 units)
- HED 417 AIDS: Contemporary Health Crisis (3 units)
- HED 434/GEOG 434 Geographies of Health and Health Care (3 units)
- HED 450 Policy Issues in Health Education (3 units)
- HED 527/CINE 527 Documentary for Health and Social Justice I (6 units)
- HED 528/CINE 528 Documentary for Health and Social Justice II (6 units)
- HED 630 Elementary School Health (3 units)
- HED 635 Secondary School Health (1 units)
- HED 640 Structural Inequities and Public Health (3 units)
- HED 650 Training and Education Processes in Public Health (3 units)
- HED 670 Principles of Peer Health Education (3 units)
- HED 671 Practice of Peer Health Education (3 units)
- HED 685 Projects in the Teaching of Health Education (1-4 units)
- HED 699 Independent Study (1-3 units)
- HH 205 Relaxation and Stress Reduction (3 units)
- HH 380 Holistic Health: Western Perspectives (3 units)
- HH 381 Holistic Health: Eastern Perspectives (3 units)
- HH 382 Holistic Health: Human Nature and Global Perspectives (3 units)
- HH 430 Foundation of Biofeedback and Self-Regulation (3 units)
- HH 433 Autogenic Training and Embodied Living (3 units)
- HH 540 Meditation and Imagery in Healing (3 units)

**School Health Emphasis (12 units)**
Units selected from the following on advisement:
- DFM 253 Nutrition in Health and Disease (3 units)
- CFS 355 Nutrition for Wellness (3 units)
- CFS 453 Nutrition in the Life Cycle (3 units)
- HED 210 Personal and Social Determinants of Health (3 units)
- HED 315 Drugs and Society (3 units)
- HED 320 Contemporary Sexuality (3 units)
- HED 630 Elementary School Health (3 units)
- HED 635 Secondary School Health (1 units)
- HED 685 Projects in the Teaching of Health Education (1-4 units)
- HED 699 Independent Study (1-3 units)
Holistic Health Studies Emphasis (12 units)
Units selected from the following on advisement:
Select nine units of the following:
HH 380 Holistic Health: Western Perspectives (3 units)
HH 381 Holistic Health: Eastern Perspectives (3 units)
HH 382 Holistic Health: Human Nature and Global Perspectives (3 units)
HH 383 Chinese Perspectives in Holistic Health (3 units)
Select three units of the following on advisement:
HH 200 Holistic Approach to Academic Success (3 units)
HH 205 Relaxation and Stress Reduction (3 units)
HH 210 The Dao of Well-Being in Chinese Tradition (3 units)
HH 290/H ED 290 Promoting Positive Health (3 units)
HH 420 Chinese Body-Mind Energetics (3 units)
HH 430 Foundation of Biofeedback and Self-Regulation (3 units)
HH 433 Autogenic Training and Embodied Living (3 units)
HH 450 Somatic Education and Holistic Health (3 units)
HH 530 Herbal and Nutritional Principles in Chinese Healing (3 units)
HH 535 Western Nutrition and Herbs (3 units)
HH 540 Meditation and Imagery in Healing (3 units)
HH 545 Imagery and Healing in Tibetan Culture (3 units)
HH 560 Naturopathic Medicine and Personal Wellness (3 units)
HH 650 Anthroposophical Health Studies (3 units)
HH 660 Art as Healing (3 units)
HH 670 Alternative Health Practices (3 units)
HH 680 Holistic Health Internship Seminar (3 units)
HH 690 Seminar: Psychophysiology of Healing (3 units)
HH 699 Independent Study (1-3 units)
## Bachelor of Science in Health Education – PHS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Public Health Science. Thirteen units in the major (BIOL 100/BIOL 101, H ED 290, MATH 124) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 210</td>
<td>General Microbiology and Public Health and General Microbiology and Public Health Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 211</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H ED 400GW</td>
<td>Community Assessment in Public Health - GWAR ¹</td>
<td>3</td>
</tr>
<tr>
<td>H ED 405</td>
<td>Introduction to Community/Public Health ¹</td>
<td>3</td>
</tr>
<tr>
<td>H ED 425</td>
<td>Introduction to Research and Statistics in Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 655</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H ED 410</td>
<td>Organization and Function of Health Services</td>
<td>3</td>
</tr>
<tr>
<td>H ED 420</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>H ED 430</td>
<td>Community Health Education Theory</td>
<td>3</td>
</tr>
<tr>
<td>H ED 455</td>
<td>Community Organizing and Community Building for Health ²</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US &amp; CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H ED 241 or H ED 305</td>
<td>Health and Social Movements in the United States in the 20th Century or Critical History of Public Health in the United States</td>
<td>3</td>
</tr>
<tr>
<td>H ED 431</td>
<td>Program Planning, Implementation, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>H ED 520</td>
<td>Structural Oppression and Social Foundations of Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Emphasis ³</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H ED 480</td>
<td>Fieldwork and Reflective Seminar</td>
<td>9</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences</td>
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<td></td>
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<tr>
<td>University Elective</td>
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<td><strong>Units</strong></td>
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<td>14</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ If ENG 214 or equivalent is not completed prior to transfer, then students must take ENG 214 in the first semester and H ED 400GW and H ED 405 in the second semester. Move one Required (Non-Sequenced course) from the second semester to the first semester. Length of time for degree completion will be prolonged if an ENG 214 equivalent is not completed before transfer.

² H ED 455 fulfills GE UD-C.

³ If H ED 221 equivalent ³ not taken before transfer, choose from courses designated for C-B PH emphasis.
Choose H ED or HH course that also satisfies C-B PH Emphasis.
H ED 221 is comparable to C-ID PHS 102.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 3–15 Units**
- ENG 214 or equivalent A4 course (0–3 units) if not completed prior to transfer. Length of time for degree completion will be extended.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not met pre-transfer.
- Upper division GE (9 units): For UD GE B and D, choose H ED or HH courses that satisfy major requirements for the C-B PH emphasis. UD GE C satisfied by Major Required course. See notes.
- Students entering this major with the AS-T in Public Health are not required to fulfill SF State Studies or Complementary Studies requirements.

**Health Education Major: 49 Units**
BIOL 100/BIOL 101, H ED 290, MATH 124 met in transfer.
- Prerequisites: four units - BIOL 210 and BIOL 211
- Required: 36 units
- Community-based Public Health Emphasis: nine units. If C-ID equivalent to H ED 221 not taken before transfer, choose an additional three unit course from the C-B PH list.
- Students interested in either the Holistic Health or School Health Emphasis should consult with a major advisor about course choices; note that degree completion in 60 units may not be possible.

**University Electives: Two or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Certificate in Holistic Health Studies

Holistic Health Advisors: Burke, Burrows, Daubenmier, Harvey, Peper

The Certificate in Holistic Health Studies is available to degree and non-degree students. The certificate is offered by IHHS as a resource for health care professionals seeking career enrichment and for those pursuing growth and a deeper understanding of holistic health.

Note: Non-degree students apply through the College of Extended Learning, (415) 405–7700. For additional information, visit www.cel.sfsu.edu (http://www.cel.sfsu.edu).

Institute for Holistic Health Studies

The Certificate in Holistic Health Studies is available to anyone admitted through the College of Extended Learning/Open University. It is also available to matriculated students who have completed the minor in holistic health studies. The curriculum includes an additional 8 units beyond the units required for the minor. The certificate is ideally suited for individuals who already have an academic degree, who are already in a health profession, or who may be exploring career options. Also, since a holistic health perspective encourages self-care and self-regulation, the program can be an excellent choice for stress reduction, personal growth, and health promotion. Classes can also be taken without enrolling in the program, an ideal way to explore specific interests. (See description of the program below.)

Holistic Health Studies, Certificate — 30 Units

Completion of Minor (22 Units)

(see minor (p. 522))

Required Course (3 Units)

HH 680 Holistic Health Internship Seminar 3

Electives (5 Units)

Elective units can be selected from remaining Holistic Health Studies courses or from any appropriate course (on advisement) from across the campus. Examples of appropriate courses outside of the HHS curriculum would include:

ANTH 581 Anthropology and Folklore 3
BIOL 318 Our Endangered Planet 3
BUS 450 Greening of Business 3
CHIN 101 First Semester Chinese 3
COUN 425 Advanced Peer Advising 2
H ED 210 Personal and Social Determinants of Health 3
HIST 578 History of Japan 3
RPT 205 Enlightened and Sustainable Travel 3
RRS 276 Race, Activism and Climate Justice 3
PSY 442 Health Psychology 3

Other electives with approval of Holistic Health advisor

Note: Students fulfilling the Holistic Health Studies Minor or Certificate Program may be eligible to apply for a Certification in Stress Management Education given by the Biofeedback Certification Institute of America (BCIA). Also, students who take the Holistic Health Studies biofeedback courses and fulfill some additional requirements may be eligible to apply for BCIA Biofeedback Certification. See a Holistic Health Studies advisor for details.

Minor in Health Education

The Minor in Health Education is an 18 unit program. The minor complements many major programs offered by other University departments and has been designed for maximum flexibility. Individuals must work with a health education advisor to select appropriate courses. Advisor approval is required for courses not listed below.

Health Education Minor — 18 units

Required Courses (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 210</td>
<td>Personal and Social Determinants of Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 221</td>
<td>Health and Social Justice - Burning Issues, Taking Action</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 units)

Electives in Health Education from the following, Holistic Health Studies or related fields will be considered on advisement with advisor approval required as related to student’s needs and interests.

(At least six units must be upper division)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 200</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 241</td>
<td>Health and Social Movements in the United States in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>H ED/COUN 280</td>
<td>Empowering Poor Families to Graduate Out of Poverty</td>
<td>3</td>
</tr>
<tr>
<td>H ED/HH 290</td>
<td>Promoting Positive Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 303</td>
<td>Health Disparities and Sexual and Gender Minority Communities: LGBTQI Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 305</td>
<td>Critical History of Public Health in the United States</td>
<td>3</td>
</tr>
<tr>
<td>H ED 315</td>
<td>Drugs and Society</td>
<td>3</td>
</tr>
<tr>
<td>H ED 320</td>
<td>Contemporary Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>H ED 410</td>
<td>Organization and Function of Health Services</td>
<td>3</td>
</tr>
<tr>
<td>H ED 414</td>
<td>Women’s Health - Problems and Issues</td>
<td>3</td>
</tr>
<tr>
<td>H ED 415</td>
<td>Health Aspects of Aging</td>
<td>3</td>
</tr>
<tr>
<td>H ED 417</td>
<td>AIDS: Contemporary Health Crisis</td>
<td>3</td>
</tr>
<tr>
<td>H ED/GEOG 434</td>
<td>Geographies of Health and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>H ED 450</td>
<td>Policy Issues in Health Education</td>
<td>3</td>
</tr>
<tr>
<td>H ED 455</td>
<td>Community Organizing and Community Building for Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED/CINE 527</td>
<td>Documentary for Health and Social Justice I</td>
<td>6</td>
</tr>
<tr>
<td>H ED/CINE 528</td>
<td>Documentary for Health and Social Justice II</td>
<td>6</td>
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<tr>
<td>H ED 630</td>
<td>Elementary School Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 635</td>
<td>Secondary School Health</td>
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<tr>
<td>H ED 640</td>
<td>Structural Inequities and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 650</td>
<td>Training and Education Processes in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 670</td>
<td>Principles of Peer Health Education</td>
<td>3</td>
</tr>
<tr>
<td>H ED 671</td>
<td>Practice of Peer Health Education</td>
<td>3</td>
</tr>
<tr>
<td>H ED 685</td>
<td>Projects in the Teaching of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>H ED 699</td>
<td>Independent Study</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Holistic Health Studies

Holistic Health Advisors: Burke, Burrows, Daubenmier, Harvey, Peper

A Minor in Holistic Health Studies complements many SF State majors, provides unique learning opportunities, and expands career options. Benefits to HH minors include priority waitlisting for HH courses, individual advising with IHHS faculty and collaboration with others interested in complementary healing.

Institute for Holistic Health Studies

The Institute for Holistic Health Studies offers a Minor in Holistic Health Studies. The minor is taken in conjunction with one's bachelor's degree and appears on the diploma along with the major. A minor in holistic health studies is an excellent complement to many SF State majors. It provides unique learning opportunities, a chance to explore or expand career options, and a way to improve personal health and well-being. Course content is interdisciplinary, examines human experience and health from an interdependent or holistic perspective, and focuses on practical, experiential learning in diverse areas such as stress management, autogenic training, East Asian medicine, meditation, yoga, biofeedback, guided imagery and more. Additional benefits to minors include priority waitlisting for holistic health studies courses, individual advising with faculty, and collaboration with others interested in integrative health practices. The minor involves taking 18 units of holistic health studies courses — nine units of core courses (Eastern, Western, Global Perspectives, and Chinese Perspectives), nine units of elective courses — and four units of anatomy or physiology, for a total of 22 units (see the description of the minor below).

Holistic Health Studies Minor — 22 units

Core Courses (9 units)

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH 380</td>
<td>Holistic Health: Western Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>HH 381</td>
<td>Holistic Health: Eastern Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>HH 382</td>
<td>Holistic Health: Human Nature and Global Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>HH 383</td>
<td>Chinese Perspectives in Holistic Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Holistic Health Emphasis (9 units)

Select from any of the courses listed below:

- **Western Perspectives**
  - HH 205 Relaxation and Stress Reduction 3
  - HH 430 Foundation of Biofeedback and Self-Regulation 3
  - HH 433 Autogenic Training and Embodied Living 3
  - HH 535 Western Nutrition and Herbs 3
  - HH 560 Naturopathic Medicine and Personal Wellness 3
  - HH 690 Seminar: Psychophysiology of Healing 3

- **Eastern Perspectives**
  - HH 210 The Dao of Well-Being in Chinese Tradition 3
  - HH 420 Chinese Body-Mind Energetics 3
  - HH 530 Herbal and Nutritional Principles in Chinese Healing 3
  - HH 540 Meditation and Imagery in Healing 3
  - HH 545 Imagery and Healing in Tibetan Culture 3
  - KIN 136 Hatha Yoga 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 236</td>
<td>Intermediate/Advanced Hatha Yoga</td>
<td>2</td>
</tr>
<tr>
<td>KIN 175</td>
<td>Elementary Tai-Chi Chuan</td>
<td>1</td>
</tr>
<tr>
<td>KIN 275</td>
<td>Intermediate/Advanced Tai-Chi Chuan</td>
<td>2</td>
</tr>
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</table>

**Human Nature and Global Perspectives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH 200</td>
<td>Holistic Approach to Academic Success</td>
<td>3</td>
</tr>
<tr>
<td>HH/H ED 290</td>
<td>Promoting Positive Health</td>
<td>3</td>
</tr>
<tr>
<td>HH 450</td>
<td>Somatic Education and Holistic Health</td>
<td>3</td>
</tr>
<tr>
<td>HH 650</td>
<td>Anthroposophical Health Studies</td>
<td>3</td>
</tr>
<tr>
<td>H ED 655</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>HH 660</td>
<td>Art as Healing</td>
<td>3</td>
</tr>
<tr>
<td>HH 670</td>
<td>Alternative Health Practices</td>
<td>3</td>
</tr>
<tr>
<td>HH 680</td>
<td>Holistic Health Internship Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HH 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Human Anatomy/Physiology (4 units)**

Completion of a college-level course in human anatomy/physiology. (Biol 100/Biol 101 or Biol 323 are acceptable.)

**Minor in Women's Health Issues**

The 21 unit Minor in Women's Health Issues is a natural complement to a variety of majors such as nursing, health education, counseling, psychology, urban studies, or other human service careers. The program offers three areas of focus:

1. theory about women's social roles and status implications for women's health;
2. organizing and managing health services, health education, and health delivery systems;
3. politics, policy analysis, and strategies for changing women's health policies.

Students take a core course in each of these areas, then choose three electives which may be concentrated within one area or drawn from several areas, and then complete a culminating research project or internship. The choice of electives and final research project or internship is chosen in consultation with an advisor in order to meet the needs and interests of the individual student. Electives from related fields will be considered on advisement as related to student's needs and interests. Advisor approval is required for courses not listed below.

**Women's Health Issues**

Minor — Minimum 21 units

Core Courses (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 200</td>
<td>Introduction to Women and Gender Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social Determinants**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 414</td>
<td>Women's Health - Problems and Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**Health Services and Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP/LABR/PLSI</td>
<td>Urban Health Policy</td>
<td>570</td>
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</tbody>
</table>

**Politics and Policy**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 136</td>
<td>Hatha Yoga</td>
<td>1</td>
</tr>
</tbody>
</table>

**Electives (9–12 units)**

Units selected from one or more of the areas of focus in consultation with an advisor.
Social Determinants
AFRS 370 Health, Medicine, and Nutrition in the Black Community 3
CFS 453 Nutrition in the Life Cycle 3
H ED 210 Personal and Social Determinants of Health 3
SOC 469 Gender and Society 4
SOC 476 Medical Sociology 3
WGS 300GW Gender, Race, and Nation - GWAR 3
WGS 578 Women, Globalization, and Ecology 3
WGS 593 Gender, Health, and the Environment 3

Health Services and Health Education
H ED 410 Organization and Function of Health Services 3
H ED 431 Program Planning, Implementation, and Evaluation 3
H ED 520 Structural Oppression and Social Foundations of Health 3
SOC 476 Medical Sociology 3

Politics and Policy
H ED 450 Policy Issues in Health Education 3
PLSI/USP 480 Introduction to Urban Policy and Analysis 4
LTNS 210 Latina/Latino Health Care Perspectives 3
S W/USP 456 Urban Community Organizing and Citizen Action 3
USP 565 Social Policy and Family Systems 4
WGS 570 Women, Gender, Policy, and Justice 3
WGS 611 Theories of Female Sexuality 3

Final Integrative Project/Internship
One of the following (3–6 units) in consultation with the advisor:
H ED 480 Fieldwork and Reflective Seminar 9
H ED 690 Independent Study 1–3
USP 686 Field Work in Urban Studies 1–4
WGS 698 Work Study in Feminist Projects 1–3

Master of Public Health

Graduate Advisors: Chávez, Cushing, Elaison, Lam, Love, Mamo, Martinson, Moore, Rebalan, Sanchez-Vaznaugh, van Olphen

The Master of Public Health program in Community Health Education at San Francisco State University shares the mission of the Department of Health Education to promote health at the individual, community, and structural levels through transformative education, research, scholarship and service, all of which value diversity, engage communities, and are grounded in cultural humility.

To further this mission, the Master of Public Health program:

1. Provides professional preparation in the core competencies, functions, and responsibilities required of master level community health educators.
2. Embraces an ecological approach, including a curriculum that addresses determinants of health at the individual, interpersonal, organizational, community, and policy levels.
3. Builds the specialized professional competencies required to promote health and prevent disease among culturally diverse populations.
4. Incorporates the principles of adult learning in the application of knowledge and skills to specific public health problems.
5. Engages students in applying theory and research to practice in partnership with communities to address the social determinants of health, reduce inequities, and contribute to building healthy communities.
6. Emphasizes collaborative leadership and team building through a cohorted learning community approach.
7. Serves the campus community and the communities of the Bay Area through developing mutually beneficial partnerships with communities, community-based organizations, public health departments, and other public and private institutions.

Admission Criteria

- A minimum of 4,000 cumulative hours of previous health-related work experience; paid and/or volunteer, part-time or full-time positions. Application strengthened by public health/health equity positions, particularly post-baccalaureate and leadership roles, and by additional public health/health equity work experience beyond the required 4,000 hour minimum.
- Evidence of academic excellence, as reflected in a grade point average of 3.0 or higher in a baccalaureate degree or the last 60 semester (90 quarter) units attempted of higher education coursework or a previously earned post-baccalaureate degree from a regionally accredited university
- Graduate Record Exam (GRE) General Test
- Graduate-level proficiency in written English, as demonstrated by a 4.0 or higher on the Analytical Writing Section of the GRE General Test
- A completed college course in each of four areas: statistics or calculus, social science, composition, and cultural, ethnic, or social diversity (CESD). Strong academic performance in the four prerequisite course areas further strengthens the application. View detailed information about the prerequisite courses on the departmental website (http://healthed.sfsu.edu). The statistics/calculus course must have been completed with a grade of B– or higher within six years of the M.P.H. program application year. If an applicant has not completed the statistics/calculus course within six years of applying to the program or has not met the minimum B– course grade requirement, admission to the program may still be recommended, but with the admission condition that a refresher statistics course is completed with grade of B– or higher before the first fall semester of intended enrollment.
- If applicable, TOEFL test or equivalent: grad.sfsu.edu/ (http://grad.sfsu.edu)
- Linguistic competence in English and a second language strengthens the application.

Admission Procedures

1. Strongly Recommended: Attend a Prospective M.P.H. Student Information Session. Applicants are strongly encouraged to attend one of these sessions. See the Department Events webpage (http://healthed.sfsu.edu/events) for the calendar of information sessions offered each academic year. These faculty-led sessions provide detailed information about the program, curriculum, admission criteria, selection procedures, and the application process. To reserve a space in one of the sessions, email hedMPh@sfsu.edu (hedmphp@sfsu.edu) with your name, your email address, and the date of the session. For directions, parking and a campus map, view the
SF State Parking & Transportation website (http://parking.sfsu.edu). Out-of-area applicants unable to attend an information session can email hedMPH@sfsu.edu (hedmph@sfsu.edu) to receive a set of program informational documents by email.

2. **Application Process:** New M.P.H. students are admitted only during fall semesters, as a cohort learning community. An applicant must submit all required application materials by the March 1st priority application deadline for the application to be considered during the priority admission review period for subsequent fall semester admission. These application materials include both those required by the SF State Division of Graduate Studies and those required by the SF State Department of Health Education. After the March 1st priority application deadline, if spaces remain in the incoming fall cohort, applications will be accepted on a rolling basis until May 31st, or until the subsequent fall cohort is filled, whichever comes first.

3. **Admission Decision Notification.** Applicants who apply by the March 1st priority application deadline will receive an admission decision notification from the Division of Graduate Studies by mid-April. For applicants who submit their applications after the priority deadline during a rolling admission period, admission decision notification will take place within 2–3 weeks of application submission.

4. **M.P.H. Student Move to Classified Status.** Admitted M.P.H. applicants enroll in the SF State M.P.H. program with conditionally classified status. To move to classified status, a student must meet all of the conditions specified by the Division of Graduate Studies and the Department of Health Education. These include any specialized conditions indicated in the Department of Health Education admission recommendation letter and M.P.H. Student Handbook, both the Level One and Level Two written English proficiency requirements for Master of Public Health students, meeting all the course grade thresholds as specified in the M.P.H. Student Handbook, completion of at least two consecutive semesters of coursework of 3.0 or higher grade point average, and the demonstration of professional ethics and effective collaborative learning skills. In addition, in order to continue in the M.P.H. program, a student must make satisfactory progress toward degree completion each semester, including meeting all standards as stipulated by the department. Departmental standards, detailed in the M.P.H. Student Handbook, include meeting the specified departmental grade thresholds for individual courses. M.P.H. students are allowed a maximum of two attempts to complete a required course at or above the threshold grade specified in the M.P.H. Student Handbook. A course withdrawal counts as a course completion attempt. Students who do not meet the grade threshold after two attempts at a course will be declassified.

**Application Period**

New students are admitted as a cohorted learning community for fall semesters only - there are no spring admits. The priority application period is October 1st through March 1st for subsequent fall semester admission. If spaces remain in the cohort after the March 1st priority application deadline, then there will be a rolling admission period from March 2nd to May 31st or until the incoming fall cohort is filled, whichever comes first.

**Written English Proficiency Requirement**

The university has a requirement for written English proficiency that is to be assessed at two different levels.

---

**Level I**

Students must demonstrate graduate-level proficiency in written English *prior to admission* to the M.P.H. program with a score of 4.0 or higher on the Analytical Writing Section of the GRE. An applicant who scores below a 4.0 on the Analytical Writing Section of the GRE is required to submit an academic writing sample with the application, and may be admitted to the M.P.H. program, but with the stipulation that the student engage in additional writing skills development activities before program commencement and/or during program enrollment. The enrolled student must also meet the Level II written English proficiency as specified below.

**Level II**

The student’s ability to write in a scholarly manner in the major field must be demonstrated by successfully meeting the B or higher grade thresholds of the first-semester first-year courses H ED 810, H ED 815, and H ED 884.

**Curriculum**

The M.P.H. curriculum emphasizes critical thinking skills, collaborative learning, problem-solving, practical experience, social justice, and advocacy. The program consists of 44 units, scheduled to accommodate working professionals while maintaining sound pedagogy. The program can be completed in a minimum of five semesters, which translates into two academic years, including a summer semester between the first and second year. More moderately paced degree completion plans are also available.

**Master of Public Health – 44 units**

**Required Courses (44 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ED 810</td>
<td>Public Health and Principles of Community</td>
<td>3</td>
</tr>
<tr>
<td>H ED 811</td>
<td>Community Health Education Skills ePortfolio</td>
<td>1</td>
</tr>
<tr>
<td>H ED 815</td>
<td>Theories of Social Behavioral Change in Community Health Education</td>
<td>3</td>
</tr>
<tr>
<td>H ED 820</td>
<td>Community Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>H ED 821</td>
<td>Public Health Profession Practice</td>
<td>3</td>
</tr>
<tr>
<td>H ED 822</td>
<td>Advanced Public Health Profession Practice</td>
<td>3</td>
</tr>
<tr>
<td>H ED 825</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>H ED 828</td>
<td>Biostatistics Lab</td>
<td>1</td>
</tr>
<tr>
<td>H ED 829</td>
<td>Biostatistics and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 830</td>
<td>Health Education Planning, Management, and Administration for Community Change</td>
<td>3</td>
</tr>
<tr>
<td>H ED 835</td>
<td>Public Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>H ED 840</td>
<td>Program Evaluation Design and Research</td>
<td>3</td>
</tr>
<tr>
<td>H ED 845</td>
<td>Educational Processes, Training and Curricula in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>H ED 855</td>
<td>Environmental Health</td>
<td>1</td>
</tr>
<tr>
<td>H ED 884</td>
<td>Seminar in Applied Community Health Education Research (Public Health Inquiry)</td>
<td>2</td>
</tr>
<tr>
<td>H ED 890</td>
<td>Master of Public Health Culminating Experience Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Course: a faculty advisor-approved upper division or graduate level course
KINESIOLOGY

College of Health and Social Sciences
Dean: Alvin Alvarez

Department of Kinesiology
GYM 101
Phone: (415) 338–2244
Fax: (415) 338–7566
Chair: Marialice Kern
Graduate Program Coordinator: Kate Hamel

Program Scope
The programs in Kinesiology at SF State are carefully designed so that students experience the multidisciplinary foundations of human movement and physical activity. Students gain theoretical and practical knowledge related to the biological, physical, behavioral, sociocultural, philosophical, and psychological factors underlying human movement and physical activity. The field of kinesiology studies underlying factors in the context of skill in a variety of contexts, including those related to activities of daily living, work settings, recreation, sport, and the performing arts. Factors and parameters associated with conditioning, learning, and rehabilitation are studied across the lifespan and within a diversity of populations. In addition, sport is studied as a personal endeavor and social institution. Thematic emphases allow students to select patterns of courses tailored to meet individual interests and career goals.

The department offers a wide array of physical activity classes that provide instruction in movement and sport skills from beginning to advanced levels; an array of general education courses examining aspects of physical activity and mental-physical performance from various perspectives; prerequisites for advanced graduate study and certificates in therapeutic and allied health fields and adapted physical education; and minors leading to certification in coaching and adapted physical education.

Physical Education and Adapted Physical Education Teaching
Students who wish to become credentialed as public school teachers in physical education or as adapted physical education specialists should select the concentration in physical education program. However, to be eligible for admission to the credential program at SF State, students must attain a GPA of 2.75 in the Subject Matter Program curriculum. Students must work closely with an advisor to fulfill the requirements of the Subject Matter Program, and should also. Contact the Credential and Graduate Services Center for teaching credential information. The Center is located in Burk Hall 244, (415) 405–3594; credinfo@sfsu.edu.

Adapted Physical Education (Added Authorization)
The Adapted Physical Education Added Authorization (APE AA) allows an individual to teach special needs students who are precluded from participating in a general education physical education program or a specially designed physical education program as determined by the local level special education assessment. The APE Added Authorization is an add-on authorization for the holder of a valid prerequisite credential.

Candidates for the Add Authorization in Adapted Physical Education must hold a teaching credential in one of the following: Physical Education Single Subject, Multiple Subject or Special Education – with 12 units of prerequisites that include the following coursework or equivalent:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 487</td>
<td>Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 485</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 580</td>
<td>Instructional Strategies for Middle and High School Physical Education, Grades 6-12</td>
<td>3</td>
</tr>
<tr>
<td>KIN 581</td>
<td>Practicum in Middle and High School Physical Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>An instructional analysis upon the advisor’s approval</td>
<td>2</td>
</tr>
</tbody>
</table>

Minor/Certificate in Athletic Coaching
This area of study provides students in academic areas other than kinesiology with the knowledge and skills required for coaching interscholastic or community athletic teams.

Therapeutic and Allied Health Profession Preparation
The B.S. in Kinesiology supports preparation for advanced study in graduate or certificate programs in therapeutic or rehabilitation areas including physical or occupational therapy, chiropractic, and allied health professions. With the addition of specific courses required for admission to various graduate programs, the student will graduate with a strong foundation in the movement sciences as well as with most of the prerequisites necessary for entry into a program of their choice.

Kinesiology programs include a number of courses typically required for the admission to physical or occupational therapy programs, and may provide the graduate with more than one career/graduate path. Students are strongly advised to identify the specific requirements of each program to which they plan to apply. Some additional courses may be substituted for parallel courses in the major, upon approval of the student’s major advisor. Others courses may be taken as free electives or, in some cases, to fulfill General Education requirements. To stay informed and to optimize planning, students must work closely with a departmental advisor, and should become involved in the Kinesiology Student Association.

Advising
Students in all the programs must work closely with an advisor to select the proper degree program, concentration, and configuration of courses to support career and scholarly interest related to the study of human movement and physical activity. Students seeking to major in or change their major to kinesiology must consult with the undergraduate advisor in Gymnasium Room 137 to be officially accepted into the major.

Undergraduate students interested in pursuing a master’s degree in kinesiology should speak to their academic advisor after completing core requirements in the program (KIN 251, KIN 384GW, KIN 457, KIN 480, KIN 486, and KIN 504).

Many of the courses listed in the major patterns have prerequisites or co-requisites and must be taken in a particular sequence. See "Duplicate Use of Credit Between the Major and GE" in the (p. 66) Bulletin page Undergraduate Degree: Overview. Prior approval by the student's major advisor is required for all individually tailored groups of courses and course substitutions.
The course of study in the major requires that the student complete all basic subjects requirements (GE Areas A and B4) and pre-major prerequisites, all with a grade of C or better, prior to enrolling in the major upper division courses. The major upper division courses, projects, internships, and culminating experiences require competence in written and oral communication, quantitative reasoning, logical and critical thinking, computer facility, and a thorough grounding in biological and physical science. The B.S. in Kinesiology is science intensive. Successful and timely progress through this program requires careful planning and organization. Students must show proof of completion of prerequisites to the instructor at the start of all applicable courses.

Transfer students are encouraged to visit the department prior to enrollment at SF State, or as soon as possible thereafter, to learn about the major and the expectations for student performance. Students having academic difficulty for any reason are encouraged to seek assistance immediately by speaking to their major advisor, a peer counselor (kin.sfsu.edu/content/advising), and/or the Student Resources Center (chss.sfsu.edu/src) in the College of Health and Social Sciences.

Master of Science in Kinesiology

Students in the M.S. Kinesiology program apply multiple perspectives to problems related to exercise, fitness, motor skill and development in the contexts of activities of daily living, play, games, sport, and other forms of human physical activity. Graduates exit the program with strong theoretical and problem-solving skills, experience in the evaluation of current research in the field, and knowledge in the field of kinesiology. They are able to apply these skills in a wide variety of careers as well as further graduate study. The curriculum allows for an emphasis in exercise physiology, movement science, or physical activity with social scientific perspectives.

Exercise Physiology

An emphasis in exercise physiology is intended for students who are interested in furthering their understanding of how the physiological systems of the human body respond to exercise. Exercise physiology is a multi-disciplinary field with strong ties to basic research, life sciences, and medicine. This emphasis offers a comprehensive study of the acute and chronic cardiovascular, respiratory, and metabolic responses to exercise; and the application of these concepts to exercise testing, prescription, and supervision in both healthy and diseased populations. Furthermore, an objective of the exercise physiology emphasis is to assist in preparation for certification as Health Fitness SpecialistSM or Clinical Exercise Specialist through the American College of Sports Medicine. Upon completion of the program, students will be prepared to further their education in a doctoral program, or seek employment in a rehabilitation clinic, health club, wellness center or other fitness setting. Kinesiology graduate students may earn a Certificate in Exercise Physiology by completing all requirements including three courses (nine units) in the emphasis that are marked with a number (1). This certificate is only for graduate students in the Kinesiology program.

Movement Science

An emphasis in movement science provides an advanced degree that prepares students to work in a variety of movement and health care settings, teach in community colleges or high schools, or continue postgraduate studies leading to a doctoral degree. Students explore the multitude of factors that influence the control of human movement and the way in which that control changes over time. In addition, students develop skill critiquing and analyzing movement using techniques from the neurosciences and biomechanics. Students ultimately apply their knowledge and skill in areas such as sports, dance, recreation, rehabilitation, teaching, coaching, and ergonomics. Kinesiology graduate students may earn a Certificate in Movement Science by completing all requirements including three courses (nine units) in the emphasis that are marked with a number (1). This certificate is only for graduate students in the Kinesiology program.

Physical Activity: Social Scientific Perspectives

The emphasis in physical activity: social scientific perspectives is intended for students interested in advanced study of physical activity from within the sociocultural, psychological, pedagogical or at-risk youth development areas. Students who have been active in the fields of education and physical education and who are interested in or are currently pursuing a teaching credential will also find the program relevant to their career goals. The curriculum is designed so that students who are currently enrolled in the credential program can apply 12 units towards the master’s program. In addition, students who previously received their teaching credential and are returning to school for the M.S. degree can design, with advisement, a program of studies from the courses listed below and other electives. Lastly, students can plan, with advisement, a program of studies within adapted physical education. Kinesiology graduate students may earn a Certificate in Physical Activity: Social Scientific Perspectives by completing three courses (nine units) in the emphasis that are marked with a number (1). This certificate is only for graduate students in the Kinesiology program.

Successful completion of the master degree requires that students demonstrate knowledge and skill in the following areas:

1. Able to apply multiple perspectives to the study of various forms of physical activity (e.g., exercise, fitness, movement, and skill) across the lifespan and in a variety of contexts
2. Gain an in-depth understanding of the body of knowledge related to one or more of the sub-disciplines in the field of kinesiology
3. Able to identify and search for information associated with problems or topics in Kinesiology
4. Able to use appropriate methodologies and technologies to address specific problems or topics in Kinesiology
5. Exit the program with an understanding of dominant theories, models, and systems in the study of Kinesiology
6. Become critical consumers of the literature in kinesiology and will have the skills and knowledge to make contributions to that literature

Career Outlook

Graduates from our program can gain immediate entry into a number of physical activity, exercise, and human movement related jobs or can seek advanced study leading to careers in: teaching, adapted physical education, coaching, athletic training, physical therapy, occupational therapy, exercise leadership, fitness program management, sports media, consulting, community-based program development, cardiac rehabilitation, biomechanical analysis of movement, ergonomics, sports-related endeavors, research in movement and skill development and learning, research in exercise physiology, research in sociocultural and psychological factors associated with sports, physical activity, and/or urban youth development, or careers in technical writing or computer technology.
Notes for Prospective Applicants for Undergraduate

Interested freshmen desiring a Bachelor of Science in Kinesiology should apply to the program as Undeclared with an Interest in Kinesiology. Upper division applicants will be considered for admission to the major. To be admitted to the major, students must have upper division status (earned at least 60 units by the preceding semester) and are recommended to complete prerequisite courses (Human Biology, Human Anatomy, Human Physiology, Elementary Statistics and Introduction to Kinesiology), all with grades of C or better. The applicants should choose their concentration (either Exercise and Human Movement or Physical Education) at the time of their application. Further instructions to apply the programs can be found at kin.sfsu.edu/impaction (http://kin.sfsu.edu/impaction).

Impaction Information

Effective fall 2014, both concentrations in the B.S. program are impacted. This means that there are more students interested in studying kinesiology than the program can accommodate. Therefore, entrance into the program is a selective and competitive process. Prospective students will need to apply to the program and students will only be accepted for the fall semester of each academic year. Transfer applicants not admitted to the major, but who meet GE and University admissions requirements, will be admitted to their alternate non-impacted majors. Continuing SF State students not admitted to the program will remain in their current majors or will be admitted to their alternate non-impacted majors.

Professors

Anderson, Kern, Kim, Lee, Mitchell, Schleihaufl, Walsh, Zieff

Associate Professors

Guedes, Hamel, Hughes, Veri

Assistant Professors

Bolter, Bagley

Majors

• Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences (p. 527)
• Bachelor of Science in Kinesiology: Concentration in Physical Education (p. 536)

Minor/Certificate

• Minor/Certificate in Athletic Coaching (p. 542)

Masters

• Master of Science in Kinesiology (p. 542)

Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences

The department offers a Bachelor of Science in Kinesiology with concentrations in Exercise and Movement Sciences, and in Physical Education. Both concentrations require a set of pre-major prerequisites and core requirements, some of which may be utilized to fulfill general education requirements, and which establish the framework for the study of movement, skills, and physical activity from a variety of perspectives. In addition, a set of concentration-specific courses serves the purpose of preparing the student for specific careers and/or graduate study within the field or related disciplines. Students must select one of the two concentrations.

• All courses including physical activity courses used to satisfy completion of major requirements must be taken for a letter grade. No CR/NC grades may be used on the major petition for graduation.
• Students majoring in Physical Education and taking courses in Exercise Science Emphasis areas (i.e., Physiology of Fitness and Health; Fitness Programming in Youth and Elderly Populations) are required to show proof of current First Aid/CPR certification upon application for graduation. This can be obtained via receiving off-campus certification by an agency such as the American Red Cross.
• Students majoring in Physical Education must earn a grade of C or higher in all required Kinesiology theory courses and grade of B or higher in all movement-based courses.
• It is recommended that students graduate with some form of certification to enhance employment opportunities, such as those provided by the American Red Cross, the American College of Sports Medicine, ACE, Senior Fitness Certificate, AFPA, or the National Coaching Association. See an advisor for suggestions and/or additional possibilities.

Bachelor of Science

Each concentration within the B.S. commences with a foundation in science, mathematics, and kinesiology, and a sequence of required core courses designed to progressively develop the students’ knowledge of movement, skill, and physical activity.

The graduating student will have the skills and knowledge to engage in the observation, analysis, and measurement of movement, fitness, learning, skill, and physical activity; will have the tools and knowledge to engage in synthesis and systematic inquiry; and will be capable of using necessary computerized programs and supporting technologies for systematic inquiry and/or professional practice.

The Concentration in Exercise and Movement Sciences serves students interested in biomechanics, exercise physiology, motor control, motor learning and development, sport and exercise psychology, sport history, sport sociology, socio-cultural studies of physical activity, urban youth development, and physical or occupational therapy. Qualified students will be equipped with the skills and knowledge needed for advanced study in any of the above-mentioned domains or employment in fitness settings, physical activity programming, the sports media, sports industries, and as consultants for agencies developing sports policy.

The program examines those factors that influence the form, function, and effectiveness of movement and physical activity across the lifespan and for special populations, such as the disabled and individuals with chronic diseases. The framework for the degree program encompasses three major subject areas:

1. Social Science: the socio-cultural and psychological factors that serve to constrain and define human movement, fitness, and physical activity;
2. Movement Science: the factors that influence the neuromotor control, learning, relearning, and development of motor skills and analysis; and
3. Exercise Science: the variables involved in the physiology of fitness and health, exercise prescription, and fitness programming in youth and elderly populations.

Toward the end of the program, students will select an emphasis area of study that will introduce them to specialized work within the concentration. In the movement science subject area, students become adept in observation and analysis of movement and in use of video and computer technology to study movement related questions. Throughout their studies, students apply the knowledge and skills they gain to the analysis of movement problems which are of personal interest and significance.

In the social science subject area, students will gain an understanding of the psychological, social, and cultural contexts in which physical activity occurs. Students will undertake the study of the origins of modern sport and physical activity, as well as explore such factors as the social, psychological, cultural, economic, and political influences on physical activity participation at all levels.

In the exercise science subject area, students will study the effects of exercise and physical activity on factors influencing work performance, training programs, and adaptations that include the reduction of risk factors for medical conditions such as coronary heart disease, cerebral vascular disease, adult-onset diabetes, obesity, and osteoporosis, as well as special conditions such as pregnancy, and other hypokinetic illnesses, or adaptations that are effective for the aged and disabled populations. The student will also study factors and frameworks for an effective programming for fitness and physical activity behaviors in youth and elderly populations.

Students who complete the Exercise and Movement Sciences concentration should be able to:

1. Define kinesiology and its sub-disciplines.
2. Explain the value of, and advocate for, physical activity in terms of health, wellness, and quality of life.
3. Analyze a variety of physical activities and their components from multiple perspectives.
4. Discuss how and why human performance changes.
5. Design interventions to maintain and improve human performance.
6. Critically evaluate information sources in kinesiology.
7. Effectively communicate information about kinesiology.
8. Apply their knowledge and skills to problems that confront contemporary society.

**General Education Requirements Met in the Kinesiology Major or Undeclared with Interest in Kinesiology**

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

**Kinesiology (B.S.): Concentration in Exercise and Movement Sciences — 66–69 Units**

**Pre-Major Prerequisites (14–15 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
</tr>
<tr>
<td>&amp; BIOL 101</td>
<td>Human Biology Laboratory</td>
</tr>
<tr>
<td>or BIOL 230</td>
<td>Introductory Biology I</td>
</tr>
<tr>
<td>BIOL 220</td>
<td>Principles of Human Anatomy</td>
</tr>
<tr>
<td>or BIOL 328</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>KIN 250</td>
<td>Introduction to Kinesiology</td>
</tr>
</tbody>
</table>

**Core Requirements (18 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 251</td>
<td>Success in the Kinesiology Major</td>
</tr>
<tr>
<td>KIN 384GW</td>
<td>Research Methods in Kinesiology - GWAR</td>
</tr>
<tr>
<td>KIN 457</td>
<td>Culture, Gender, and Movement</td>
</tr>
<tr>
<td>KIN 480</td>
<td>Anatomical Kinesiology</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Motor Learning</td>
</tr>
<tr>
<td>KIN 504</td>
<td>Sport and Exercise Psychology</td>
</tr>
</tbody>
</table>

**Required Concentration Courses (22–23 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 212</td>
<td>Principles of Human Physiology</td>
</tr>
<tr>
<td>BIOL 213</td>
<td>Principles of Human Physiology Laboratory</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Survey of Chemistry</td>
</tr>
<tr>
<td>&amp; CHEM 102</td>
<td>Survey of Chemistry Laboratory</td>
</tr>
<tr>
<td>or CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
</tr>
<tr>
<td>KIN 482</td>
<td>Exercise Physiology</td>
</tr>
<tr>
<td>KIN 483</td>
<td>Exercise Physiology Laboratory</td>
</tr>
<tr>
<td>KIN 485</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Conceptual Physics</td>
</tr>
<tr>
<td>&amp; PHYS 102</td>
<td>Conceptual Physics Laboratory</td>
</tr>
<tr>
<td>or PHYS 111</td>
<td>General Physics I</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>General Physics I Laboratory</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>KIN 696</td>
<td>Kinesiology Community-Based Internship</td>
</tr>
<tr>
<td>KIN 697</td>
<td>Integrative Research Seminar</td>
</tr>
<tr>
<td>&amp; KIN 698</td>
<td>and Senior Research Project</td>
</tr>
<tr>
<td>KIN 699</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

**Emphasis (11–12 Units)**

Student must choose one of the following three emphases

**Movement Science Emphasis (12 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 325</td>
<td>Computer Applications in Kinesiology</td>
</tr>
<tr>
<td>KIN 331</td>
<td>Peak Performance</td>
</tr>
<tr>
<td>KIN 437</td>
<td>Physical Dimensions of Aging</td>
</tr>
<tr>
<td>KIN 487</td>
<td>Motor Development</td>
</tr>
<tr>
<td>KIN 538</td>
<td>Therapeutic Exercise</td>
</tr>
<tr>
<td>KIN 539</td>
<td>Motor Assessment of Individuals with Disabilities</td>
</tr>
<tr>
<td>KIN 636</td>
<td>Neuromotor Control Processes</td>
</tr>
<tr>
<td>KIN 680</td>
<td>Quantitative Analysis of Human Movement</td>
</tr>
</tbody>
</table>

• Area B2 (Life Science) is satisfied upon completion of either BIOL 212 and BIOL 220 or BIOL 328.
Social Science Emphasis (12 Units)

KIN 255 Health-related Fitness and Wellness  
KIN 322 Sport in America  
KIN 331 Peak Performance  
KIN 437 Physical Dimensions of Aging  
KIN 489 History and Philosophy of Sport and Physical Activity  
KIN 490 Introduction to Sport and Fitness Program Management  
KIN 502 Sport and Social Issues (Required)  
KIN 510 Sport, Movement, and Screen Culture  

Exercise Science Emphasis (11–12 Units)

(Current CPR certification is required prior to graduating)

KIN 308 Instructional Analysis: Fitness Activities  
KIN 347 Physical Dimensions of Aging  
KIN 490 Introduction to Sport and Fitness Program Management  
KIN 538 Therapeutic Exercise  
KIN 555 Exercise Testing and Prescription  
KIN 681 Muscle Mechanics  
KIN 683 Applied Exercise Physiology  
KIN 690 Internship in Fitness/Wellness  

Activity Requirement (1 Unit)

With prior approval of advisor, select one activity course (KIN prefix) representing a fitness-related activity or movement form that complements and enhances the student’s personal fitness and movement profile.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>

Social Sciences:
- LD 3 D3
- US & CA Government
- Lifelong Learning LD or UD and Self-Development (LLD)
- Physical and/or Life Science UD 3 UD-B
- Arts and/or Humanities UD 3 UD-C
- Social Sciences UD 3 UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)

This roadmap open in a new tab. (p. 531)

Transfer Student Roadmap (2 Year)

For students with an AA-T in Kinesiology. This roadmap opens in a new tab. (p. 534)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Kinesiology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units.
if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCcs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State.

Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

### All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 66

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 100 or BIOL 230</td>
<td>Human Biology or Introductory Biology I</td>
<td>4-5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 101 or CHEM 115</td>
<td>Survey of Chemistry or General Chemistry I: Essential Concepts of Chemistry</td>
<td>4-5</td>
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<tr>
<td>BIOL 220 or BIOL 328</td>
<td>Principles of Human Anatomy or Human Anatomy</td>
<td>4</td>
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<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 212 or BIOL 213</td>
<td>Principles of Human Physiology and Principles of Human Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>KIN 250</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101 or PHYS 111/112</td>
<td>Conceptual Physics or General Physics I</td>
<td>4</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) if Not Already Satisfied or SF State Studies or University Elective</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>KIN 251</td>
<td>Success in the Kinesiology Major</td>
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<tr>
<td>Major Activity Requirement: KIN Activity Course with Advisor Approval</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>GE Area UD~C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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SF State Studies or University Elective  

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<thead>
<tr>
<th>Units</th>
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### Sixth Semester

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>KIN 384GW</td>
<td>Research Methods in Kinesiology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>KIN 457</td>
<td>Culture, Gender, and Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 480</td>
<td>Anatomical Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>Emphasis Area Course (11-12 units total)</td>
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### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>KIN 482</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 483</td>
<td>Exercise Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KIN 485</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Motor Learning</td>
<td>3</td>
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<tr>
<td>Emphasis Area Course (11-12 units total)</td>
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<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>KIN 504</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
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Select one of the following:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 696</td>
<td>Kinesiology Community-Based Internship</td>
<td>3</td>
</tr>
<tr>
<td>KIN 697 &amp; KIN 698</td>
<td>Integrative Research Seminar and Senior Research Project</td>
<td></td>
</tr>
<tr>
<td>KIN 699</td>
<td>Independent Study</td>
<td></td>
</tr>
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<td>Emphasis Area Course (11-12 units total) – Take two</td>
<td>6</td>
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<tr>
<td>SF State Studies or University Elective</td>
<td>2</td>
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<table>
<thead>
<tr>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3

**Movement Science Emphasis (12 Units)**
- KIN 325 Computer Applications in Kinesiology (3 units)
- KIN 331 Peak Performance (3 units)
- KIN 437 Physical Dimensions of Aging (3 units)
- KIN 487 Motor Development (3 units)
- KIN 538 Therapeutic Exercise (3 units)
- KIN 539 Motor Assessment of Individuals with Disabilities (3 units)
- KIN 636 Neuromotor Control Processes (3 units)
- KIN 680 Quantitative Analysis of Human Movement (3 units)

**Social Science Emphasis (12 Units)**
- KIN 255 Health-related Fitness and Wellness (3 units)
- KIN 322 Sport in America (3 units)
- KIN 331 Peak Performance (3 units)
- KIN 437 Physical Dimensions of Aging (3 units)
- KIN 489 History and Philosophy of Sport and Physical Activity (3 units)
- KIN 490 Introduction to Sport and Fitness Program Management (3 units)
- KIN 502 Sport and Social Issues (3 units)
- KIN 510 Sport, Movement, and Screen Culture (3 units)

**Exercise Science Emphasis (11–12 Units)**
*(Current CPR certification is required prior to graduating)*
- KIN 308 Instructional Analysis: Fitness Activities (2 units)
- KIN 437 Physical Dimensions of Aging (3 units)
- KIN 490 Introduction to Sport and Fitness Program Management (3 units)
- KIN 538 Therapeutic Exercise (3 units)
- KIN 555 Exercise Testing and Prescription (3 units)
- KIN 681 Muscle Mechanics (3 units)
- KIN 683 Applied Exercise Physiology (3 units)
- KIN 690 Internship in Fitness/Wellness (3 units)
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences – KIN Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Kinesiology. At least 12 lower division units in the major (KIN 250, BIOL 220, BIOL 212/BIOL 213, one activity unit) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>KIN 251</td>
<td>Success in the Kinesiology Major</td>
<td>2</td>
</tr>
<tr>
<td>KIN 384GW</td>
<td>Research Methods in Kinesiology - GWAR</td>
<td>8</td>
</tr>
<tr>
<td>or University Elective if met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History and US/CA Government – See List</td>
<td></td>
<td></td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 457</td>
<td>Culture, Gender, and Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 480</td>
<td>Anatomical Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>Major Prerequisite or Concentration – See List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or University Elective if met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 482</td>
<td>Exercise Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; KIN 483</td>
<td>and Exercise Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>KIN 485</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 504</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 696</td>
<td>Kinesiology Community-Based Internship</td>
<td>1-3</td>
</tr>
<tr>
<td>or KIN 697 and KIN 698</td>
<td>and Integrative Research Seminar</td>
<td></td>
</tr>
<tr>
<td>or KIN 699</td>
<td>Senior Research Project</td>
<td></td>
</tr>
<tr>
<td>Major Emphasis – Take Three</td>
<td></td>
<td>8-9</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. If ENG 214 and MATH 124 (or equivalents) are not completed prior to transfer, take KIN 384GW in second semester. Progress in the major and length of time for degree completion will be affected.

2. AFRS 375, AFRS 376, HIST 470, HIST 471 satisfy US History and US/CA Government. HIST 470 and HIST 471 also satisfy Upper Division GE: UD-C.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
### University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units): If this requirement is not completed before transfer, it is not possible to finish this major in four semesters. Completion in 60 units is possible, but KIN 384GW cannot be taken until ENG 214 and MATH 124 or equivalents have been completed. Subsequent KIN courses cannot be taken until KIN 384GW is completed.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer. See grid above for advice about courses that fulfill both requirements if needed.
- Upper division GE, areas B, C and D (9 units) – see grid above for advice about courses that double-count in UD GE and American Institutions.
- Students entering the major with the AA-T in Kinesiology are not required to fulfill SF State Studies and Complementary Studies requirements.

### Kinesiology: Concentration in Exercise and Movement Sciences Major: 39–57 units

KIN 250, BIOL 220 or BIOL 328, BIOL 212/BIOL 213, one unit of activity met in transfer.

- Prerequisites (0–8 units): BIOL 100+BIOL 101 or BIOL 230 and/or MATH 124 if not completed before transfer *Grade of ‘C’ or better*
- Core: (18 units): KIN 251, KIN 384GW, KIN 457, KIN 480, KIN 486, KIN 504
- Concentration (10–19 units) CHEM 101/CHEM 102 or CHEM 115 and/or PHYS 101/PHYS 102 or PHYS 111/PHYS 112 if not completed before transfer; KIN 482, KIN 483, KIN 485, KIN 696 or KIN 699
- Emphasis (11–12 units)

### University Electives: Zero or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.

### Major Prerequisite or Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100 &amp; BIOL 101</td>
<td>Human Biology and Human Biology Laboratory</td>
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</tr>
<tr>
<td>CHEM 101 &amp; CHEM 102</td>
<td>Survey of Chemistry and Survey of Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101 &amp; PHYS 102</td>
<td>Conceptual Physics and Conceptual Physics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I and General Physics I Laboratory</td>
<td>4</td>
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</table>

### US History and US/CA Government

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 376</td>
<td>Government, the Constitution, and Black Citizens</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Kinesiology: Concentration in Physical Education

The Department of Kinesiology offers a Bachelor of Science in Kinesiology with concentrations in Exercise and Movement Sciences, and in Physical Education. Both concentrations require a set of pre-major prerequisites and core requirements, some of which may be utilized to fulfill general education requirements, and which establish the framework for the study of movement, skills, and physical activity from a variety of perspectives. In addition, a set of concentration-specific courses serves the purpose of preparing the student for specific careers and/or graduate study within the field or related disciplines. Students must select one of the two concentrations.

• All courses including physical activity courses used to satisfy completion of major requirements must be taken for a letter grade. No CR/NC grades may be used on the major petition for graduation.

• Students majoring in Physical Education and taking courses in Exercise Science Emphasis areas (i.e., Physiology of Fitness and Health; Fitness Programming in Youth and Elderly Populations) are required to show proof of current First Aid/CPR certification upon application for graduation. This can be obtained via receiving off-campus certification by an agency such as the American Red Cross.

• Students majoring in Physical Education must earn a grade of C or higher in all required Kinesiology theory courses and grade of B or higher in all movement-based courses.

• It is recommended that students graduate with some form of certification to enhance employment opportunities, such as those provided by the American Red Cross, the American College of Sports Medicine, ACE, Senior Fitness Certificate, AFAA, or the National Coaching Association. See an advisor for suggestions and/or additional possibilities.

Bachelor of Science

Each concentration within the B.S. commences with a foundation in science, mathematics, and kinesiology, and a sequence of required core courses designed to progressively develop the students’ knowledge of movement, skill, and physical activity.

The graduating student will have the skills and knowledge to engage in the observation, analysis, and measurement of movement, fitness, learning, skill, and physical activity; will have the tools and knowledge to engage in synthesis and systematic inquiry; and will be capable of using necessary computerized programs and supporting technologies for systematic inquiry and/or professional practice.

The Concentration in Physical Education prepares students for entry to a teacher credentialing program and graduate related studies. The courses of study satisfy California State requirements for the Subject Matter Program in Physical Education and the departmental standards for competence in the subject matter of Physical Education. This degree emphasis will prepare students for advanced studies in physical education for elementary, middle and high schools. In addition, students who wish to pursue graduate studies will be well prepared to do so.

Students who complete the concentration in Physical Education should have:

1. Knowledge of the philosophical, historical, and ethical/legal foundations of Physical Education as professional and educational standards

2. An understanding of human growth and development processes, as well as how these processes interact with and influence motor learning, to teach based on the physical education model Content Standards for California Public Schools

3. A broad and deep knowledge of the sciences related to human movement, analyzing motion and applying this knowledge considering individual differences, including individuals with disabilities

4. A broad and deep understanding of the sociology and psychology of human movement behavior.

5. Expertise in concepts and forms of movements and relate the human motor development curriculum to physical education design

6. Knowledge of assessment principles and procedures to evaluate the effectiveness of physical education strategies and activities

7. Understanding of the integration of themes and concepts in physical education and the interrelationships between physical education and other subject areas

General Education Requirements Met in the Kinesiology Major or Undeclared with Interest in Kinesiology

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

• Area B2 (Life Science) is satisfied upon completion of either BIOL 212 and BIOL 220 or BIOL 328.

Kinesiology (B.S.): Concentration in Physical Education — 64–67 Units

Pre-Major Prerequisites (14–15 Units)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>BIOL 100 &amp; BIOL 101 or BIOL 230</td>
<td>Human Biology and Human Biology Laboratory</td>
<td>4-5</td>
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<tr>
<td>BIOL 220 or BIOL 328</td>
<td>Principles of Human Anatomy</td>
<td>4</td>
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<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
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<tr>
<td>KIN 250</td>
<td>Introduction to Kinesiology</td>
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Core Requirements (18 Units)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>KIN 251</td>
<td>Success in the Kinesiology Major</td>
<td>2</td>
</tr>
<tr>
<td>KIN 384GW</td>
<td>Research Methods in Kinesiology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>KIN 457</td>
<td>Culture, Gender, and Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 480</td>
<td>Anatomical Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Motor Learning</td>
<td>3</td>
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<tr>
<td>KIN 504</td>
<td>Sport and Exercise Psychology</td>
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Concentration Requirements (27 Units)

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<td>KIN 255</td>
<td>Health-related Fitness and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>KIN 340</td>
<td>Orientation to Teaching Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 355</td>
<td>Science, Sport, and Fitness</td>
<td>3</td>
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<tr>
<td>KIN 401</td>
<td>Elementary School Physical Education, K-5</td>
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<tr>
<td>KIN 402</td>
<td>Practicum in Physical Education, N-5</td>
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</table>
KIN 487  Motor Development  3
KIN 489  History and Philosophy of Sport and Physical Activity  3
KIN 536  Movement for Individuals with Mild Disabilities  4
KIN 580  Instructional Strategies for Middle and High School Physical Education, Grades 6-12  3
KIN 581  Practicum in Middle and High School Physical Education  1

Movement Experiences (5-7 Units)
With prior approval of advisor, select five to seven basic activity courses (one unit each) to satisfy the distribution shown below. Selections should broaden the student’s personal movement and skill vocabulary.

- Aquatics
- Dance (which must include folk dance)
- Martial Arts
- Team Sports
- Fitness
- Instructional Analysis

Instructional Analysis
KIN 305  Instructional Analysis: Track, Field, and Gymnastics Floor Activities  2

Additional Subject Matter Requirements for the Single Subject Matter Preparation in Physical Education and Dance Program
Students seeking the Physical Education and Dance Single Subject Credential or the Physical Education Subject Matter Preparation Program (approved 2009 by the CTC) are also required to complete the following courses:

KIN 306  Instructional Analysis: Racquet Sports  2
KIN 307  Instructional Analysis: Basketball and Volleyball  2
KIN 308  Instructional Analysis: Fitness Activities  2
KIN 309  Instructional Analysis: Soccer and Softball  2

Students in the Physical Education Subject Matter Preparation Program must also complete an activity course in Individual Sports / Activities such as track, tennis, or gymnastics.

Additional Required Experiences
The following experiences are required for satisfactory completion of the Physical Education Subject Matter Preparation Program. Students may complete these experiences in courses available at a college, university, or off-campus. However, these experiences do not bear credit toward completion of the major.

- Life Guard Training and Water Safety Instruction.
- First Aid-CPR Certification.
- Active participation in student CAHPERD, AAHPERD, and/or the Kinesiology Student Association, or other related professional organization.
- Gain experience in coaching, teaching physical education, recreation, or intramurals through working as a volunteer or paid assistant.

Physical Education Teaching Credential Pathway
Each student in the Subject Matter Preparation Program meets the CSU Early Field Experience requirement for the SF State Single Subject Credential Program of 45 hours and develops curriculum and instruction skills. Students enrolling in KIN 402 and KIN 581 are assessed through a version of the Performance Assessment for California Teachers (PACT) required for a credential that has been adapted for the development of beginning teaching skills, planning, assessment analysis, class video recording and co-teaching. For curriculum and instruction, the courses KIN 401 and KIN 580 require that students present a curriculum, a unit plan and a lesson plan for one grade level. The instructional analysis courses (KIN 305, KIN 306, KIN 307, KIN 308 and KIN 309) refine teaching skills using specific pedagogical strategies for physical education content. In KIN 384GW students learn about assessment, data analysis and different methods of providing feedback to K - 12 students. For adapted physical education requirements, the same procedures are followed by KIN 536, KIN 538, KIN 537, KIN 539 and KIN 630.

Expectations for Student Performance
- Earn at least a C in each and all required KIN theory courses, and for credentialing purposes, at least a B in each and all movement experiences courses and all instructional analysis courses
- Demonstrate an understanding of and possess demonstration level skill competence in twelve activity areas. Students must pre-plan their routes to meet this requirement upon consultation with faculty and in conjunction with KIN 340.
- Successful completion of a fitness assessment test in conjunction with KIN 255.
- Demonstrate a high level of personal skill and coaching expertise in at least one sport.

Adapted Physical Education Curriculum
By completing the following courses, along with the Subject Matter Credential in Physical Education, a Specialist Credential in Adapted Physical Education can be achieved.

KIN 536  Movement for Individuals with Mild Disabilities  4
KIN 537  Movement for Individuals with Severe Disabilities  3
KIN 538  Therapeutic Exercise  3
KIN 539  Motor Assessment of Individuals with Disabilities  3
KIN 630  Internship in Adapted Physical Education  3

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
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<td>LD</td>
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<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
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<td>B1</td>
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<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B3</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Reasoning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#A3EL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

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### Bachelor of Science in Kinesiology: Concentration in Physical Education

**B.S. in Kinesiology: Concentration in Physical Education Roadmap**

This link opens the 2017–2018 roadmap in a new tab (p. 540).

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Kinesiology: Concentration in Physical Education Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 64

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 100 &amp; BIOL 101</td>
<td>Human Biology and Human Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
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<td></td>
</tr>
<tr>
<td>Movement Experience (5–7 Units Total)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 220 or BIOL 328</td>
<td>Principles of Human Anatomy or Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>Movement Experience (5–7 Units Total)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 250</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 255</td>
<td>Health-related Fitness and Wellness</td>
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</tr>
<tr>
<td>Movement Experience (5–7 Units Total)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) if Not Already Satisfied or SF State Studies or University Elective</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>13-14</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 251</td>
<td>Success in the Kinesiology Major</td>
<td>2</td>
</tr>
<tr>
<td>KIN 355</td>
<td>Science, Sport, and Fitness</td>
<td>3</td>
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<tr>
<td>KIN 384GW</td>
<td>Research Methods in Kinesiology - GWAR</td>
<td>3</td>
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<tr>
<td>Movement Experience (5–7 Units Total)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
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<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 340</td>
<td>Orientation to Teaching Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KIN 457</td>
<td>Culture, Gender, and Movement</td>
<td>3</td>
</tr>
</tbody>
</table>
## Bachelor of Science in Kinesiology: Concentration in Physical Education

### Roadmap

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 480</td>
<td>Anatomical Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
</tbody>
</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 401</td>
<td>Elementary School Physical Education, K-5</td>
<td>4</td>
</tr>
<tr>
<td>&amp; KIN 402</td>
<td>and Practicum in Physical Education, N-5</td>
<td></td>
</tr>
<tr>
<td>KIN 487</td>
<td>Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 504</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Movement Experience (5–7 Units Total)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>GE Area UD-D: Upper Division Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Consider SF State Studies Course)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>17</td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 489</td>
<td>History and Philosophy of Sport and Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>KIN 536</td>
<td>Movement for Individuals with Mild Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>KIN 580</td>
<td>Instructional Strategies for Middle and High</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>School Physical Education, Grades 6-12</td>
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</tr>
<tr>
<td>KIN 581</td>
<td>Practicum in Middle and High School Physical</td>
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<tr>
<td></td>
<td>Education</td>
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</tr>
<tr>
<td></td>
<td>Movement Experience (5–7 Units Total)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
</tbody>
</table>

**Total Units**: 120-121

---

1. To avoid taking additional units, it is recommended that you meet LLD and **SF State Studies** requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Movement Experiences (5–7 Units)**

   With prior approval of advisor, select five to seven basic activity courses (one unit each) to satisfy the distribution shown below. Selections should broaden the student's personal movement and skill vocabulary.
   - Aquatics
   - Dance (which must include folk dance)
   - Martial Arts
   - Team Sports
   - Fitness
   - Instructional Analysis
   - KIN 305 Instructional Analysis: Track, Field, and Gymnastics Floor Activities (2 units)
Minor/Certificate in Athletic Coaching

This sequence of courses is for students who are interested in coaching and/or pursuing a career in coaching. It provides the knowledge and skill base required for coaching club, school, and community athletic teams.

Athletic Coaching, Minor/Certificate — 24–25 units

Core (19–20 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 220</td>
<td>Principles of Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 328</td>
<td>Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>KIN 294</td>
<td>CPR (KIN 295 optional)</td>
<td>1</td>
</tr>
<tr>
<td>KIN 331</td>
<td>Peak Performance</td>
<td>3</td>
</tr>
<tr>
<td>KIN 355</td>
<td>Science, Sport, and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KIN 486</td>
<td>Motor Learning (KIN 250 prerequisite not required if non-kinesiology major)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 504</td>
<td>Sport and Exercise Psychology (KIN 250 prerequisite not required if non-kinesiology major)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (4 units)

Select two courses from the following. (Previous competitive experience in the sport or consent of instructor is required.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 305</td>
<td>Instructional Analysis: Track, Field, and Gymnastics Floor Activities</td>
<td>2</td>
</tr>
<tr>
<td>KIN 307</td>
<td>Instructional Analysis: Basketball and Volleyball</td>
<td>2</td>
</tr>
<tr>
<td>KIN 308</td>
<td>Instructional Analysis: Fitness Activities</td>
<td>2</td>
</tr>
<tr>
<td>KIN 309</td>
<td>Instructional Analysis: Soccer and Softball</td>
<td>2</td>
</tr>
<tr>
<td>KIN 620</td>
<td>Advanced Practicum in Kinesiology</td>
<td>2</td>
</tr>
<tr>
<td>KIN 621</td>
<td>Advanced Practicum in Kinesiology</td>
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</table>

Culminating Experience

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 570</td>
<td>Directed Coaching Experience</td>
<td>1</td>
</tr>
</tbody>
</table>

A one-season coaching experience in youth athletics, recreation leagues, interscholastic, or intercollegiate athletics in a sport in which a coaching course is selected.

Repeat of Courses

Graduate students who receive a grade lower than B, including AU, IC, RD, RP, W, and WU may repeat the course only once more.

Continuous Enrollment

Students are expected to continuously enroll in the University while working on the degree through the College of Extended Learning (CEL) until the degree is earned using HSS 499.

Assistantships

Opportunities may be available to work in the Kinesiology Department as a graduate student at San Francisco State University. Qualified students may apply, when available, to teach the physical activity courses, lower division lectures, and laboratory sections. Students may also apply for financial aid through the University.

The Master of Science in Kinesiology is 30 units and includes a core, an emphasis, electives, and a culminating experience. Students studying a specific emphasis, in consultation with their advisor, will select electives and a culminating experience that best meets their professional/personal needs. Final approval of the student’s program rests with the graduate faculty. Students are expected to complete this degree in a maximum of five years.

Kinesiology (M.S.) — Minimum 30 units

Program Core Requirements (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>KIN 710</td>
<td>Research in Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 715</td>
<td>Research Designs and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>KIN 795</td>
<td>Seminar in Kinesiology</td>
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</table>

Emphases (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 740</td>
<td>Advanced Exercise Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>KIN 742</td>
<td>Exercise and Cardiovascular Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 746</td>
<td>Clinical Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 755</td>
<td>Exercise Electrocardiography, Testing, and Prescription</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Community college courses in coaching are accepted as substitutes.
**Culminating Experience (6 units)**

Select one of the following:

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 897</td>
<td>Independent Research in Kinesiology</td>
<td>6</td>
</tr>
<tr>
<td>&amp; KIN 898</td>
<td>and Master’s Thesis</td>
<td></td>
</tr>
<tr>
<td>KIN 895</td>
<td>Master’s Project in Kinesiology (and Elective Upon Advisement)</td>
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</tr>
</tbody>
</table>

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**Emphasis in Movement Physiology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 730</td>
<td>Advanced Biomechanics (^1)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 733</td>
<td>Motor Learning (^1)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 736</td>
<td>Advanced Neuromotor Control (^1)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 763</td>
<td>Motivation and Performance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective Upon Advisement</td>
<td>3</td>
</tr>
</tbody>
</table>

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**Emphasis in Physical Activity: Social Science Perspectives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 734</td>
<td>Physical Activity Programs for Underserved Youth (^1)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 763</td>
<td>Motivation and Performance (^1)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 766</td>
<td>Sociocultural Bases of Physical Activity (^1)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective Upon Advisement</td>
<td>6</td>
</tr>
</tbody>
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**Credential Students**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 750</td>
<td>Curriculum and Instruction I: Physical Education (should be used instead of electives)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 751</td>
<td>Curriculum and Instruction II: Physical Education (should be used instead of electives)</td>
<td>3</td>
</tr>
</tbody>
</table>

---

\(^1\) To apply for award of certificate, you must submit the Certificate Approved Program form to your advisor and Graduate Program Coordinator. You will need to pay a processing fee at the Cashier’s Office before submitting the form and your unofficial transcripts to the GradStop Counter. For further information and to access the online forms go to sfsu.edu/~gradstyd/forms/cap.pdf (http://www.sfsu.edu/~gradstyd/forms/cap.pdf)
NURSING

College of Health and Social Sciences
Dean: Alvin Alvarez, PhD

School of Nursing
BH 371
Phone: (415) 338-1802
Website: http://www.nursing.sfsu.edu/
Email: nursing@sfsu.edu

Director: Mary Ann van Dam, Ph.D., RN, PNP
Associate Director: Elaine Musselman, RN, Ph.D., CNE

Academic Nursing Programs Offered
Bachelor of Science in Nursing
- Precalculus: for entry into the nursing profession
- Registered Nurse to BSN: for RNs without a nursing baccalaureate degree

Master of Science in Nursing/Post Master's Certificate
- Precalculus: entry level into the nursing profession for students with a baccalaureate degree in another field; pre-licensure and graduate specialization components in administration, adult acute care, pediatrics, women's health, and community health
- RNs with bachelor's degrees in nursing or other disciplines can specialize in administration, adult acute care, pediatrics, women's health, community health, or family nurse practitioner
- Post-master's certificate: family nurse practitioner for nurses with masters' or doctoral degrees

The School
Mission
The San Francisco State University School of Nursing aims to motivate and educate undergraduate and graduate nursing students to meet the healthcare needs of individuals, families, and communities. The faculty has a passion for teaching using a rich variety of educational methods. We embrace the diversity of our student population and are committed to educating nurses who serve diverse populations with a focus on social and environmental justice, and health equality. Furthermore, we incorporate evidence-based nursing knowledge, ethical decision-making, and sound clinical judgment into our educational paradigm. Using various educational modalities that include state of the art information technologies, students learn how to provide safe, quality patient-centered care. Our students are prepared to adapt to changing healthcare needs and environments and to serve society through civic engagement and lifelong learning.

Nursing Philosophy
We foster student growth and development embracing their richly diverse cultural and ethnic backgrounds, recognizing the individual differences in learning styles and goals, and adapting support systems to help students fulfill their educational goals. Building on a foundation of knowledge from nursing and other disciplines such as psychology, sociology, philosophy, and anthropology, graduates of this program will collaborate with other healthcare disciplines (i.e. medicine, physical therapy, psychology, social work, and others) to provide compassionate and ethical care along the health-illness continuum throughout the lifespan. These educational endeavors affect the healthcare environment and positively influence health outcomes of individuals, families, communities and populations. We are committed to professional development of faculty, staff, and students using our conceptual model, which guides our academic activities. We provide excellent nursing education and academic activities emphasizing patient-center care, patient safety, teamwork and collaboration, evidence-based practice, quality improvement, informatics, leadership and lifelong learning for the students as well as faculty and staff.

The following objectives are based on this philosophy:

- To provide curricula that reflects human diversity and encourages critical thinking, clinical judgments, and social and cultural awareness
- To provide a learning environment conducive for students with diverse learning styles and needs
- To develop clinicians, leaders, advocates and change agents to function in evolving healthcare systems
- To increase the number of nurses from underrepresented groups in nursing
- To prepare nurses who support, use and disseminate research in practice
- To serve the local and global community through faculty and student leadership, consultation research, and clinical practice

Conceptual Framework
The conceptual framework that provides the academic foundation for the nursing curriculum at the SF State School of Nursing is based on the Quality and Safety Education for Nurses (QSEN) competencies. These concepts encompass patient-centered care, teamwork and collaboration, evidence-based practice, quality improvement, safety and informatics. This conceptual framework is based on the acquisition of knowledge, skills, and attitudes (KSAs) required to ensure quality care and the safety of clients and families in local and global communities in a variety of healthcare systems.

Career Outlook
The Bachelor of Science degree prepares students for entry-level positions in professional nursing practice. Graduates are prepared to take a national licensure examination (NCLEX) to become registered nurses and for positions in maternity, pediatrics, medical-surgical nursing, gerontology, psychiatric/mental health, community health, long-term care and home-care. In addition, they are eligible for public health nursing certification in California upon licensure as a registered nurse. For RNs, the Bachelor of Science degree builds upon previous nursing education and experience for professional role development.

Master of Science graduates provide leadership and expertise in a variety of settings as expert clinicians, administrators/managers, teachers and researchers assuring health and healthcare for people of all ages. Clinical Nurse Specialists, as expert clinicians, managers, program planners and case managers, serve specific client/patient populations in acute, chronic, inpatient, outpatient, and community/public health settings. Graduates of the nursing administration emphasis hold positions in nursing management, administration, and as entrepreneurs across a variety of health care settings. Graduates prepared as family nurse practitioners hold positions in a variety of primary care and hospital settings. Graduates of all emphases are eligible for positions in program planning and evaluation and to serve as clinical faculty for schools of
nursing. The master’s curriculum also prepares students for entry into nursing education at the doctoral level.

Notes for Prospective Applicants
In addition to the requirements listed for each educational level in the materials that follow, there are special considerations for all nursing students:

• Informational sessions about the school and application processes will be offered. Please check the website for dates, times and locations.
• The School of Nursing reserves the right to make changes in the admissions process or curriculum to accommodate programmatic needs. Students will be advised and assisted in making adjustments to these changes.
• Students may apply to only one of the programs offered by the school in a given admission cycle.
• Course equivalency information may be found at http://www.assist.org.
• Students must have personal health insurance.
• Prior to the beginning of each semester, students must meet specific health requirements including immunizations, tuberculosis testing, etc.
• Background checks and drug screening are required for all prelicensure students prior to starting clinical.
• Students are required to purchase specified equipment and pay laboratory fees for certain courses.
• Current Basic Cardiac Life Support (BCLS) for health care providers as offered by the American Heart Association is required.
• A National Council Licensure Examination-Registered Nurse (NCLEX-RN) preparation program is incorporated throughout the prelicensure nursing programs for an additional fee.
• Students must have use of an automobile for the community health nursing experience and to travel to clinical sites that may not be served by public transportation.

30 Unit LVN Option
A 30 unit LVN option is available on a space available basis. Students must contact the School of Nursing prior to admission and registration for advising about course placement, the challenge exam process, and space availability. Upon completion of the program, the LVN will not receive a degree, but will be eligible to take the NCLEX-RN.

Professors
Baj, Van Dam

Associate Professors
Carabez, Chou, Li

Assistant Professors
Doan, Holschuh, Kim, Musselman, Shea, Windle

Clinical Faculty/Full-time Lecturers
Carr, Kawamura, Martin, Rivera-Hancock, Rovera, Saberman, Vitale

Majors
• Bachelor of Science in Nursing (Pre-licensure) (p. 548)

Masters
• Bachelor of Science for RNs (p. 545)

• Master of Science in Nursing (p. 551)
• Master of Science in Nursing: Concentration in Family Nurse Practitioner (p. 554)

Certificates
• Family Nurse Practitioner Certificate (p. 551)

Bachelor of Science for RNs
The RN–BSN program is designed for RNs with an associate degree or diploma in nursing who are interested in obtaining a baccalaureate nursing degree. The curriculum allows credit for some previous course work and has flexible scheduling to accommodate the practicing nurse. Students have the option to study part-time or full-time. If a student meets University general education and other degree requirements, it is possible to complete the course of study in one to a half years through full-time study.

Admission/Application Information
• Spring entry only. The application period is during the month of August. Specific dates and application process guidance will be posted on the School of Nursing website.
• Both School of Nursing and University applications must be submitted for those who are not already SF State students.
• RNs may receive credit for previous nursing education.
• The maximum number of transferable units is 70.

Criteria for Admission
• Eligible for undergraduate or post-baccalaureate admission to the University.
• Successful completion of an accredited associate degree or diploma in nursing.
• Licensure as an RN in the State of California prior to enrollment.
• A nursing prerequisite GPA of 3.0 or higher at the time of the School of Nursing supplemental application.
• All nursing prerequisites completed with a minimum grade of C.

Prerequisite Courses – 28 Units
The courses listed below or those which are comparable as listed on www.assist.org (http://www.assist.org) are required for acceptance into the major.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>BIOL 212 &amp; BIOL 213</td>
<td>Principles of Human Physiology and Principles of Human Physiology Laboratory</td>
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<td>BIOL 220 or BIOL 328</td>
<td>Principles of Human Anatomy 1</td>
<td>4</td>
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<tr>
<td>CHEM 101 &amp; CHEM 102</td>
<td>Survey of Chemistry and Survey of Chemistry Laboratory</td>
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<td>COMM 150</td>
<td>Fundamentals of Oral Communication</td>
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<td>ENG 114</td>
<td>First Year Composition (Written Communication I)</td>
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<tr>
<td>MATH 124</td>
<td>Elementary Statistics (Quantitative Reasoning)</td>
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</table>
NURS 559  Professional Practice Concepts Practicum  3

Upper Division General Education  3

Units  9

Third Semester

NURS 558  Professional Practice Concepts Theory  3

NURS 559  Professional Practice Concepts Practicum  3

Upper Division General Education  3

Units  9

Total Units  30

Students completing the RN–BSN program will achieve the School of Nursing’s BSN Expected Student Learning Outcomes as outlined below:

- Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Integrate best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care.
- Use data to monitor the outcomes of care processes and use improvement methods to design and test changes to continuously improve the quality and safety of health care systems.
- Minimizes risk of harm to patients and providers through both system effectiveness and individual performance.
- Use information and technology to communicate, manage knowledge, mitigate error, and support decision-making.

General Education Requirements

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<td>Communication</td>
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<tr>
<td>Written English</td>
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<td>3</td>
<td>A2</td>
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<tr>
<td>Communication I</td>
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<td></td>
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<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
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<tr>
<td>Written English</td>
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<td>3</td>
<td>A4</td>
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<td>Communication II</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<td>Arts or Humanities</td>
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<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
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<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
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<td>Physical and/or Life Science</td>
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<td>3</td>
<td>UD-B</td>
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<td>Arts and/or Humanities</td>
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<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
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</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) 3

30
Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Nursing (Prelicensure)

The School of Nursing offers prelicensure (RN) bachelor's degree programs at the San Francisco campus and in the Peninsula/SF State Baccalaureate Nursing Program at the College of San Mateo. The Peninsula/SF State Baccalaureate Nursing program is an accelerated four-semester program that includes the summer session. It is offered through the College of Extended Learning at SF State and is supported through San Mateo Community College District, Sequoia Hospital and the CSU. The course of study is the same for both sites. Students are encouraged to explore the specific requirements on the School of Nursing website as they may vary from year to year.

Applicants to the baccalaureate nursing program may be current students at SF State, transfers, or second baccalaureates. As freshmen applicants are not admitted to the university as nursing majors, students can be admitted as Pre-nursing or to an alternate major. The Pre-nursing designation does not guarantee admission to the nursing major; students with the Pre-nursing designation must seek advising from the Student Resource Center in the College of Health and Social Sciences. All students applying to the nursing program must meet the minimum University requirements (see earlier sections of the Bulletin) and satisfy specific prerequisites for the program.

Admission/Application Information

- Application period: early October to mid-January. Specific dates and application process guidance will be posted on the School of Nursing website.
- Both School of Nursing and University applications must be submitted for those who are not already SF State students.
- Optional supplemental criteria: foreign language proficiency, multicultural work, volunteer experiences, and health related work or volunteer experiences.
- Sequoia applicants must verify their residency and completion of prerequisite course work in the San Mateo Community College District.
- Applicants will be notified of the decision regarding acceptance into the program in the spring.

Admission Criteria for the Prelicensure Baccalaureate Nursing Program

Transfer applicants must be admissible to the University in accordance with existing criteria as stated in the undergraduate admission requirements section of the University Bulletin. Second baccalaureate applicants must be admissible as per the CSU Graduate Admission Eligibility section of the Bulletin. In addition, students seeking to major in nursing must meet the following criteria and prerequisites.

Prospective students must:

- Be California residents or eligible for CSU in-state tuition.
- Have a nursing Prerequisite GPA of 3.0 or higher at the time of School of Nursing supplemental application.
- Receive a minimum grade of C in all nursing prerequisites.
- Complete University general education requirements.
- Submit results of the Test of Essential Academic Skills (ATI TEAS) at the time of supplemental application. A score of 78 or higher is required within three attempts.

Students completing the B.S.N. program will achieve the School of Nursing’s B.S.N. Expected Student Learning Outcomes as outlined below:

1. Recognize the patient or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for patient’s preferences, values, and needs.
2. Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care.
3. Integrate best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care.
4. Use data to monitor the outcomes of care processes and use improvement methods to design and test changes to continuously improve the quality and safety of healthcare systems.
5. Minimizes risk of harm to patients and providers through both system effectiveness and individual performance.
6. Use information and technology to communicate, manage knowledge, mitigate error, and support decision-making.

General Education Requirements Met in Pre-nursing Courses

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B2 (Life Science) is satisfied upon completion of either BIOL 210 and BIOL 212, or BIOL 210 and BIOL 220.

Nursing Prerequisites – 27–28 units

The courses listed below or those which are comparable as listed on assist.org (http://www.assist.org) are required for acceptance into the nursing major. Seven of the eight prerequisites must have been completed at the time of School of Nursing supplemental application.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210</td>
<td>General Microbiology and Public Health</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 211</td>
<td>General Microbiology and Public Health Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 220</td>
<td>Principles of Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 328</td>
<td>Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>BIOL 212</td>
<td>Principles of Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL 213</td>
<td>Principles of Human Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Survey of Chemistry</td>
<td>4</td>
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<tr>
<td>&amp; CHEM 102</td>
<td>Survey of Chemistry Laboratory</td>
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<tr>
<td>COMM 150</td>
<td>Fundamentals of Oral Communication</td>
<td>3</td>
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<td>ENG 114</td>
<td>First Year Composition (Written Communication I)</td>
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<td>MATH 124</td>
<td>Elementary Statistics (quantitative reasoning)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Introduction to Critical Thinking I</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Either anatomy course must include a laboratory component if taken elsewhere.
This is an integrated course in which students are introduced to topics in general, organic, and biochemistry. Stand alone general, inorganic, or organic chemistry courses will also fulfill the chemistry requirement.

**Nursing GWAR Course Information**

All undergraduate nursing students must have completed ENG 214 or an equivalent course prior to enrolling in NURS 312GW during semester one of the nursing major.

**Courses Required for RN Licensure in California**

Prior to applying for RN licensure, the Board of Registered Nursing (BRN) requires students to have completed a minimum of 16 semester units comprising natural sciences, behavioral, and social sciences. To complement the anatomy, physiology, and microbiology prerequisites, it is highly recommended that students complete a general or developmental psychology course prior to taking NURS 328 Psychiatric Mental Health Nursing Theory and any additional behavioral or social science course as needed to fulfill the BRN’s requirement; Anthropology or Sociology is strongly suggested.

**Note:** These courses may also satisfy GE requirements.

**General Education Requirements Met in Nursing Courses**

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- UD–D (Social Sciences) and SF Studies American Ethnic and Racial Minorities (AERM) and Social Justice (SJ) are satisfied upon completion of NURS 522 and NURS 530.

**Bachelor of Science in Nursing Curriculum**

(usual course of study)

**Nursing (B.S.) — 56 units**

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<tr>
<th>Course</th>
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<tr>
<td>NURS 311</td>
<td>Human Development and Health Assessment Theory and Lab</td>
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<tr>
<td>NURS 312GW</td>
<td>Research and Evidence-Based Practice in Nursing - GWAR (also satisfies the University Written English Proficiency requirements)</td>
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<tr>
<td>NURS 314</td>
<td>Health Promotion in Nursing</td>
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<td>NURS 315</td>
<td>Health Promotions in Nursing - Practicum</td>
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<td><strong>Units</strong></td>
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<td><strong>Second Semester</strong></td>
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<td>NURS 326</td>
<td>Reproductive Health Theory</td>
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<td>NURS 327</td>
<td>Reproductive Health Practicum</td>
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<td>NURS 328</td>
<td>Psychiatric Mental Health Nursing Theory</td>
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<td>Psychiatric Mental Health Nursing Practicum</td>
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<td>NURS 350</td>
<td>Nursing Interventions Practicum I</td>
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<td>NURS 410</td>
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<td>Nursing Care of Adults Theory</td>
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<td>NURS 450</td>
<td>Nursing Interventions Lab II</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>NURS 520</td>
<td>Advanced Medical Surgical and Critical Care Nursing</td>
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<td>NURS 521 or NURS 523</td>
<td>Advanced Medical Surgical and Critical Care Nursing Capstone Practicum</td>
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<td>NURS 522</td>
<td>Chronic Care and End of Life Care Theory</td>
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<td>NURS 530</td>
<td>Community Health and Global Perspectives Theory</td>
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**General Education Requirements**

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<th>Requirement</th>
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<th>Area Designation</th>
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<tr>
<td>Oral</td>
<td>LD</td>
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<td>A1</td>
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<td>Communication</td>
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<tr>
<td>Critical Thinking</td>
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<td>Written English</td>
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<tr>
<td>Communication II</td>
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<tr>
<td>Physical Science</td>
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<td>B1</td>
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<tr>
<td>Life Science</td>
<td>LD</td>
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<td>B2</td>
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</tbody>
</table>
Lab Science  LD  1  B3
Mathematics/Quantitative Reasoning  LD  3  B4
Arts  LD  3  C1
Arts or Humanities  LD  3  C1 or C2
Humanities: Literature  LD  3  C3
Social Sciences  LD  3  D1
Social Sciences: US History  LD  3  D2
Social Sciences: US & CA Government  LD  3  D3
Lifelong Learning and Self-Development (LLD)  LD or UD  3  E
Physical and/or Life Science  UD  3  UD-B
Arts and/or Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap open in a new tab. (bulletin.sfsu.edu/colleges/health-social-sciences/nursing-bsn/roadmap.html)

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.
Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.

**Family Nurse Practitioner Certificate**

The Post Master’s Family Nurse Practitioner (FNP) certificate allows master’s and doctoral prepared nurses to attain certification as an FNP in the State of California after completing 31 units of post-graduate work. Completion of the certificate verifies to the California Board of Registered Nursing that the students satisfy all requirements for licensure as family nurse practitioners. The program also provides documentation to professional organizations that all requirements for national certification examinations were completed. The certificate program includes the courses listed below. Sequencing is determined in consultation with an advisor.

**Post Master’s Family Nurse Practitioner Certificate – 31 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 708</td>
<td>Diagnosis and Management in Primary Care</td>
<td>4</td>
</tr>
<tr>
<td>NURS 711</td>
<td>Advanced Physical Assessment Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 715</td>
<td>Pharmacological Principles Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 716</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 717</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 804</td>
<td>Professional Issues and Nurse Practitioner Skills</td>
<td>3</td>
</tr>
<tr>
<td>NURS 810</td>
<td>Family Nursing Practitioner Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 811</td>
<td>Family Nursing Practitioner Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 812</td>
<td>Family Nursing Practitioner Practicum III</td>
<td>4</td>
</tr>
</tbody>
</table>

Students completing the Post-Master’s FNP certificate program will achieve the School of Nursing’s MSN Expected Student Learning Outcomes as outlined below:

- Applies and integrates broad organizational, client-centered, and culturally appropriate concepts in the planning, delivery, management, and evaluation of evidence-based clinical prevention and population care and services.
- Demonstrates nursing and inter-professional collaboration that facilitates open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Creates collaborative programs and educational approaches that address health promotion and disease prevention needs of culturally-ethnically diverse individuals and populations.
- Demonstrates a professional leadership role to promote quality and safe clinical patient care that incorporates ethical and critical decision-making approaches, fiscal accountability, effective working relationships, and systems perspectives.
- Assimilates nursing knowledge and expertise through research utilization, informatics literacy, and generates educational, leadership, or clinical approaches to advance professional nursing practice.
- Utilizes information technology to communicate effectively, manage knowledge, mitigate error, and to support decision-making.
- Designs evaluation strategies for nursing care outcomes to assess, manage, and determine resource allocation for evaluation of nursing care outcomes.
- Evaluate methods, tools, performance measures, and standards related to quality improvement within a healthcare organization.
- Applies research outcomes within the practice setting to resolve identified practice problems.

Organizes interventions at the health care system level utilizing policy development processes, economic principles, and employing advocacy strategies to influence health and health care services for individuals.

**Admission/Application Information for the FNP Certificate Program**

**Admission Requirements**

- Master’s or doctoral degree in nursing.
- Current RN licensure in California.
- One year or 2,000 hours of recent relevant clinical nursing experience.

**Master of Science in Nursing**

The School of Nursing provides master’s level educational opportunities for registered nurses and individuals with a bachelor’s degree in other fields who wish to enter the profession or pursue an advanced practice nursing degree.

**Registered nurses with bachelor’s degrees** in nursing can enter the master’s program by demonstrating they have met nursing content comparable to that in the SF State baccalaureate program.

**Individuals who are not nurses but have a bachelor’s degree** may apply to Entry-Level M.S.N. program. Students in this program complete the pre-licensure curriculum along with graduate level coursework to earn their M.S.N. in six semesters. Upon completion of pre-licensure courses, the students take a national licensing exam (NCLEX-RN) to become a registered nurse. A two-year accelerated is also available. Accelerated students enroll through the SF State College of Extended Learning. All students must have successfully completed all prelicensure courses.
and take the national licensing exam (NCLEX-RN) in California prior to enrolling in NURS 802.

Registered nurses who already hold nursing master’s degrees may apply to the post master’s family nurse practitioner (FNP) certificate program (graduate level coursework).

The master’s level curriculum includes both core courses and specialty courses. The core courses, the portion of the program for all students, include nursing theory, advanced practice nursing roles, pathophysiology, research, leadership, health policy and ethics for advanced practice nurses. Units taken in addition to the core program are selected with graduate nursing faculty advisement. Upon completion, students are eligible to sit for national nurse practitioner certification board exams and FNP certification in California.

Please note that students taking post master’s FNP certificate courses will enroll for courses through the College of Extended Learning.

**Admission/Application Information and Requirements for the Master’s Degree**

For all applicants:

- Visit the School of Nursing website for specific application dates.
- Meet general requirements for admission to graduate study at SF State and submit a separate application to the Division of Graduate Studies.
- Complete the School of Nursing supplemental application process.
- Include a written goal statement.
- Students whose primary language is not English must earn a minimum score of 550 on the paper Test of English as a Foreign Language (TOEFL) or 80 overall on the internet-based (iBT) TOEFL.
- All graduate students are required to establish written English proficiency (see information below) by submitting results of the analytical writing section of the GRE at the time of application. A score of 4.0 or above is required.
- Three references from work colleagues, supervisors, or educators.
- Provide a resume or curriculum vitae.

For RN applicants:

- Courses in inferential statistics and an undergraduate nursing research course are recommended.
- RNs who enter the M.S.N. program without a nursing bachelor’s degree must complete undergraduate nursing research and a community/public health courses prior to enrollment or concurrent with semester one M.S.N. coursework.
- Some of the prerequisite courses may be challenged or waived for students who have extensive professional experience and have participated in mandatory continuing education programs for RN licensure.
- Family Nurse Practitioner applicants must have a minimum of one year or 2,000 clinical hours of RN experience.

For non-RN applicants:

- Entry Level master's applicants must have completed all prerequisites at the time of application to the program.
- One of the three required references must provide evidence of health related work or volunteer experience

**Written English Proficiency Requirement**

The University has a requirement for graduate written English proficiency that is to be assessed at two different points (Levels) in the student’s program.

**Level One (prior to admission)**

A score of 4.0 or above on the analytical writing section of the GRE.

**Level Two**

Demonstration of English proficiency on the final paper for NURS 794.

**Entry–Level Nursing Master of Science Degree**

Qualified applicants are accepted into the Entry Level or Accelerated Entry Level MSN program conditionally.

**Prerequisites — 27–28 units**

The courses listed below or those which are comparable as listed on www.assist.org (http://www.assist.org) are required for acceptance into the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210 &amp; BIOL 211</td>
<td>General Microbiology and Public Health and General Microbiology and Public Health Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 220</td>
<td>Principles of Human Anatomy (1)</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 328</td>
<td>Human Anatomy (1)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 212 &amp; BIOL 213</td>
<td>Principles of Human Physiology and Principles of Human Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101 &amp; CHEM 102</td>
<td>Survey of Chemistry and Survey of Chemistry Laboratory (2)</td>
<td>4</td>
</tr>
<tr>
<td>COMM 150</td>
<td>Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 114</td>
<td>First Year Composition (Written Communication I)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics (Quantitative Reasoning)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Introduction to Critical Thinking I</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Either anatomy course must include a laboratory component if taken elsewhere
2. This is an integrated course in which students are introduced to topics in general, organic, and biochemistry. Stand alone general, inorganic, or organic chemistry courses will also fulfill the chemistry requirement.

**Courses Required for RN Licensure in California**

Prior to applying for RN licensure, the Board of Registered Nursing (BRN) requires students to have completed a minimum of 16 units comprising natural sciences, behavioral, and social sciences. To complement the anatomy, physiology, and microbiology prerequisites, it is highly recommended that students complete a general psychology course prior to taking NURS 328 and any additional behavioral or social science course as needed to fulfill the BRN's requirement. Anthropology or Sociology is strongly suggested.

**Entry Level Masters Nursing Courses — 97 units**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
</tr>
<tr>
<td>NURS 311</td>
<td>Human Development and Health Assessment Theory and Lab</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------------------------</td>
</tr>
<tr>
<td>NURS 314</td>
<td>Health Promotion in Nursing</td>
</tr>
<tr>
<td>NURS 315</td>
<td>Health Promotions in Nursing - Practicum</td>
</tr>
<tr>
<td>NURS 706</td>
<td>Health Care Policy and Nursing Leadership</td>
</tr>
<tr>
<td>NURS 720</td>
<td>Epidemiology and Biostatistics in Advanced Practice Nursing</td>
</tr>
<tr>
<td>NURS 326</td>
<td>Reproductive Health Theory</td>
</tr>
<tr>
<td>NURS 327</td>
<td>Reproductive Health Practicum</td>
</tr>
<tr>
<td>NURS 328</td>
<td>Psychiatric Mental Health Nursing Theory</td>
</tr>
<tr>
<td>NURS 329</td>
<td>Psychiatric Mental Health Nursing Practice</td>
</tr>
<tr>
<td>NURS 350</td>
<td>Nursing Interventions Practicum I</td>
</tr>
<tr>
<td>NURS 794</td>
<td>Research and Evidence-Based Practice in Nursing</td>
</tr>
<tr>
<td>NURS 410</td>
<td>Nursing Care of Children Theory</td>
</tr>
<tr>
<td>NURS 411</td>
<td>Nursing Care of Children Practicum</td>
</tr>
<tr>
<td>NURS 420</td>
<td>Nursing Care of Adults Theory</td>
</tr>
<tr>
<td>NURS 421</td>
<td>Nursing Care of Adults Practicum</td>
</tr>
<tr>
<td>NURS 450</td>
<td>Nursing Interventions Lab II</td>
</tr>
<tr>
<td>NURS 716</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning I</td>
</tr>
<tr>
<td>NURS 520</td>
<td>Advanced Medical Surgical and Critical Care Nursing</td>
</tr>
<tr>
<td>NURS 521</td>
<td>Advanced Medical Surgical and Critical Care Nursing Capstone Practicum</td>
</tr>
<tr>
<td>or NURS 523</td>
<td>Advanced Medical Surgical and Critical Care Nursing Capstone Practicum</td>
</tr>
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</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 522</td>
<td>Chronic Care and End of Life Care Theory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 530</td>
<td>Community Health and Global Perspectives Theory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 531</td>
<td>Community Health and Global Perspectives Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NURS 717</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning II</td>
<td>3</td>
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</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>NURS 702</td>
<td>Health Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 711</td>
<td>Advanced Physical Assessment Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 715</td>
<td>Pharmacological Principles Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 721</td>
<td>Program Planning and Financial Management in Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 801</td>
<td>Graduate Nursing Practicum</td>
<td>4</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 703</td>
<td>Education, Informatics, and eTechnology in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 732</td>
<td>Ethics in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 802</td>
<td>Graduate Nursing Practicum</td>
<td>4</td>
</tr>
<tr>
<td>NURS 895</td>
<td>Applied Research in Nursing or Master’s Thesis</td>
<td>3</td>
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</tbody>
</table>

**Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
</table>

**Total Units**: 97

Students completing the Entry-Level Master’s program will achieve the School of Nursing’s MSN Expected Student Learning Outcomes as outlined below:

- Applies and integrates broad organizational, client-centered, and culturally appropriate concepts in the planning, delivery, management, and evaluation of evidence-based clinical prevention and population care and services.
- Demonstrates nursing and inter-professional collaboration that facilitates open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Creates collaborative programs and educational approaches that address health promotion and disease prevention needs of culturally-ethnically diverse individuals and populations.
Demonstrates a professional leadership role to promote quality and safe clinical patient care that incorporates ethical and critical decision-making approaches, fiscal accountability, effective working relationships, and systems perspectives.

- Assimilates nursing knowledge and expertise through research utilization, informatics literacy, and generates educational, leadership, or clinical approaches to advance professional nursing practice.
- Utilizes information technology to communicate effectively, manage knowledge, mitigate error, and to support decision-making.
- Designs evaluation strategies for nursing care outcomes to assess, manage, and determine resource allocation for evaluation of nursing care outcomes.
- Evaluate methods, tools, performance measures, and standards related to quality improvement within a healthcare organization.
- Applies research outcomes within the practice setting to resolve identified practice problems.
- Organizes interventions at the health care system level utilizing policy development processes, economic principles, and employing advocacy strategies to influence health and health care services for individuals, families, aggregates/identified diverse populations and communities.

Master of Science in Nursing for Registered Nurses

Nursing for Registered Nurses (M.S.) — 44–52 units

Required Core Courses (44 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 702</td>
<td>Health Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 703</td>
<td>Education, Informatics, and eTechnology in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 706</td>
<td>Health Care Policy and Nursing Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 711</td>
<td>Advanced Physical Assessment Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 715</td>
<td>Pharmacological Principles Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 716</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 717</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 720</td>
<td>Epidemiology and Biostatistics in Advanced Practice Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 721</td>
<td>Program Planning and Financial Management in Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 732</td>
<td>Ethics in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 794</td>
<td>Research and Evidence-Based Practice in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 801</td>
<td>Graduate Nursing Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 802</td>
<td>Graduate Nursing Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 895</td>
<td>Applied Research in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>or NURS 898</td>
<td>Master's Thesis</td>
<td></td>
</tr>
</tbody>
</table>

Emphasis or Electives (8–12 units)

Units on advisement

Emphases

Clinical Nurse Specialist (CNS)

This emphasis offers the graduate student the opportunity to take additional courses for certification by the California Board of Registered Nursing (BRN) and to take a national certification exam through the American Nurse Credentialing Center (ANCC). The CNS is an advanced practice nurse holding a master's degree in a specific area of clinical nursing specialization such as adult and critical care, women's health, and pediatrics. The role of the CNS is defined by the needs of a select client population and clinical expertise of the nurse. Specialized role content is included in NURS 801 and NURS 802.

Community Public Health

Students completing this emphasis are prepared to assume nursing roles in a variety of care settings including public health, home health, and schools and may be eligible for CNS certification by the California Board of Registered Nursing (BRN). Specialized role content is included in NURS 801 and NURS 802.

Nursing Administration

This emphasis enables students to combine the nursing perspective and principles of business to become effective and successful managers and administrators. Courses may also be taken in the College of Business with the advice and approval of the advisor.

Students in this emphasis are not required to take NURS 711, NURS 715, NURS 716 or NURS 717 in the nursing core.

Master of Science in Nursing: Concentration in Family Nurse Practitioner

The School of Nursing provides master’s level educational opportunities for registered nurses and individuals with a bachelor’s degree in other fields who wish to enter the profession or pursue an advanced practice nursing degree.

Registered nurses with bachelor’s degrees in nursing can enter the master’s program by demonstrating they have met nursing content comparable to that in the SF State baccalaureate program.

Individuals who are not nurses but have a bachelor’s degree may apply to Entry Level MSN program. Students in this program complete the pre-licensure curriculum along with graduate level coursework to earn their MSN in six semesters. Upon completion of pre-licensure courses, the students take a national licensing exam (NCLEX-RN) to become a registered nurse.

Registered nurses who already hold nursing master’s degrees may apply to the post master’s family nurse practitioner (FNP) certificate program (graduate level coursework).

The master’s level curriculum includes both core courses and specialty courses. The core courses, the portion of the program for all students, include nursing theory, advanced practice nursing roles, pathophysiology, research, leadership, health policy and ethics for advanced practice nurses. Units taken in addition to the core program are selected with graduate nursing faculty advisement. Upon completion, students are eligible for FNP certification in California and to sit for the national nurse practitioner board certification exam.
Please note that students taking post master’s FNP certificate courses will enroll for courses through the College of Extended Learning.

**Admission/Application Information and Requirements for the Master’s Degree**

For all applicants:

- Visit the School of Nursing website for specific application dates.
- Meet general requirements for admission to graduate study at SF State and submit a separate application to the Division of Graduate Studies.
- Complete the School of Nursing supplemental application process.
- Include a written goal statement.
- Students whose primary language is not English must earn a minimum score of 550 on the paper Test of English as a Foreign Language (TOEFL) or 80 overall on the internet-based (iBT) TOEFL.
- All graduate students are required to establish written English proficiency (see information below) by submitting results of the analytical writing section of the GRE at the time of application. A score of 4.0 or above is required.
- Three references from work colleagues, supervisors, or educators.
- Provide a resume or curriculum vitae.

For RN applicants:

- Courses in inferential statistics and an undergraduate nursing research course are recommended.
- Some of the prerequisite courses may be challenged or waived for students who have extensive professional experience and have participated in mandatory continuing education programs for R.N. licensure.
- Family Nurse Practitioner students must have a minimum of one year or 2,000 clinical hours of RN experience.

For non-RN applicants:

- Entry Level master's applicants must have completed all prerequisites at the time of application to the program.
- Provide evidence of health related work or volunteer experience

**Written English Proficiency Requirement**
The University has a requirement for graduate written English proficiency that is to be assessed at two different points (Levels) in the student’s program.

**Level One (prior to admission)**
A score of 4.0 or above on the analytical writing section of the GRE.

**Level Two**
Demonstration of English proficiency on the final paper for NURS 794.

**Concentration in Family Nurse Practitioner**
Students completing the Master's program will achieve the School of Nursing’s MSN Expected Student Learning Outcomes as outlined below:

- Demonstrates nursing and inter-professional collaboration that facilitates open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Creates collaborative programs and educational approaches that address health promotion and disease prevention needs of culturally-ethnically diverse individuals and populations.
- Demonstrates a professional leadership role to promote quality and safe clinical patient care that incorporates ethical and critical decision-making approaches, fiscal accountability, effective working relationships, and systems perspectives.
- Assimilates nursing knowledge and expertise through research utilization, informatics literacy, and generates educational, leadership, or clinical approaches to advance professional nursing practice.
- Utilizes information technology to communicate effectively, manage knowledge, mitigate error, and to support decision-making.
- Designs evaluation strategies for nursing care outcomes to assess, manage, and determine resource allocation for evaluation of nursing care outcomes.
- Evaluate methods, tools, performance measures, and standards related to quality improvement within a healthcare organization.
- Applies research outcomes within the practice setting to resolve identified practice problems.

Organizes interventions at the health care system level utilizing policy development processes, economic principles, and employing advocacy strategies to influence health and health care services for individuals

**Advancement to Candidacy**
The student must resolve any admission conditions as soon as possible after beginning the graduate program. The Advancement to Candidacy form should be completed and filed in the Division of Graduate Studies after the student has completed 24 units. The Proposal for Culminating Experience form must be completed and filed before he/she enrolls in the culminating experience course, either NURS 895 or NURS 898. See the Graduate Division website for more details http://www.sfsu.edu/~gradstdy/.

**Nursing Master of Science with Concentration in Family Nurse Practitioner**

**Entry-Level Nursing Master of Science Degree**
Qualified applicants are accepted into the Entry Level or Accelerated Entry Level MSN program conditionally.

**Prerequisites – 27–28 units**
The courses listed below or those which are comparable as listed on www.assist.org (http://www.assist.org) are required for acceptance into the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210 &amp; BIOL 211</td>
<td>General Microbiology and Public Health and General Microbiology and Public Health Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 220 or BIOL 328</td>
<td>Principles of Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 212 &amp; BIOL 213</td>
<td>Principles of Human Physiology and Principles of Human Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 101 &amp; CHEM 102</td>
<td>Survey of Chemistry and Survey of Chemistry Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

555
### Courses Required for RN Licensure in California
Prior to applying for RN licensure, the Board of Registered Nursing (BRN) requires students to have completed a minimum of 16 units comprising natural sciences, behavioral, and social sciences. To complement the anatomy, physiology, and microbiology prerequisites, it is highly recommended that students complete a general psychology course prior to taking NURS 328 and any additional behavioral or social science course as needed to fulfill the BRN’s requirement. Anthropology or Sociology is strongly suggested.

### Entry Level Masters Nursing Courses – 97 units

<table>
<thead>
<tr>
<th>First Year</th>
<th>First Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 311</td>
<td>Human Development and Health Assessment Theory and Lab</td>
<td>5</td>
</tr>
<tr>
<td>NURS 314</td>
<td>Health Promotion in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 315</td>
<td>Health Promotions in Nursing - Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 706</td>
<td>Health Care Policy and Nursing Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 720</td>
<td>Epidemiology and Biostatistics in Advanced Practice Nursing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Second Semester | |
|-----------------|----------------|-------|
| NURS 326        | Reproductive Health Theory | 3 |
| NURS 327        | Reproductive Health Practicum | 3 |
| NURS 328        | Psychiatric Mental Health Nursing Theory | 3 |
| NURS 329        | Psychiatric Mental Health Nursing Practicum | 3 |
| NURS 350        | Nursing Interventions Practicum I | 2 |
| NURS 794        | Research and Evidence-Based Practice in Nursing | 3 |
| **Units**       | **17** | |

### Second Year

| First Semester | |
|----------------|----------------|-------|
| NURS 410       | Nursing Care of Children Theory | 3 |
| NURS 411       | Nursing Care of Children Practicum | 3 |
| NURS 420       | Nursing Care of Adults Theory | 3 |
| NURS 421       | Nursing Care of Adults Practicum | 3 |
| NURS 450       | Nursing Interventions Lab II | 2 |
| NURS 716       | Advanced Pathophysiology and Diagnostic Reasoning I | 3 |
| **Units**      | **17** | |

| Second Semester Pre-licensure Courses | |
|---------------------------------------|----------------|-------|
| NURS 520                               | Advanced Medical Surgical and Critical Care Nursing | 3 |
| NURS 521 or NURS 523                   | Advanced Medical Surgical and Critical Care Nursing Capstone Practicum or Advanced Medical Surgical and Critical Care Nursing Capstone Practicum | 3 |
| NURS 522                               | Chronic Care and End of Life Care Theory | 3 |
| NURS 530                               | Community Health and Global Perspectives Theory | 3 |
| NURS 531                               | Community Health and Global Perspectives Practicum | 3 |
| NURS 717                               | Advanced Pathophysiology and Diagnostic Reasoning II | 3 |
| **Units**                              | **18** | |

### Third Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Graduate Core Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 702</td>
<td>Health Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 711</td>
<td>Advanced Physical Assessment Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 715</td>
<td>Pharmacological Principles Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 721</td>
<td>Program Planning and Financial Management in Nursing Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
NURS 801  Graduate Nursing Practicum I  4

Units  16

Second Semester
NURS 703  Education, Informatics, and eTechnology in Advanced Nursing Practice  3
NURS 732  Ethics in Advanced Nursing Practice  3
NURS 802  Graduate Nursing Practicum II  4
NURS 895 or NURS 898  Applied Research in Nursing or Master’s Thesis  3

Units  13
Total Units  97

Students completing the Entry-Level Master’s program will achieve the School of Nursing’s MSN Expected Student Learning Outcomes as outlined below:

- Applies and integrates broad organizational, client-centered, and culturally appropriate concepts in the planning, delivery, management, and evaluation of evidence-based clinical prevention and population care and services.
- Demonstrates nursing and inter-professional collaboration that facilitates open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Creates collaborative programs and educational approaches that address health promotion and disease prevention needs of culturally-ethnically diverse individuals and populations.
- Demonstrates a professional leadership role to promote quality and safe clinical patient care that incorporates ethical and critical decision-making approaches, fiscal accountability, effective working relationships, and systems perspectives.
- Assimilates nursing knowledge and expertise through research utilization, informatics literacy, and generates educational, leadership, or clinical approaches to advance professional nursing practice.
- Utilizes information technology to communicate effectively, manage knowledge, mitigate error, and to support decision-making.
- Designs evaluation strategies for nursing care outcomes to assess, manage, and determine resource allocation for evaluation of nursing care outcomes.
- Evaluate methods, tools, performance measures, and standards related to quality improvement within a healthcare organization.
- Applies research outcomes within the practice setting to resolve identified practice problems.
- Organizes interventions at the health care system level utilizing policy development processes, economic principles, and employing advocacy strategies to influence health and health care services for individuals, families, aggregates/identified diverse populations and communities.

Master of Science in Nursing for Registered Nurses
Nursing for Registered Nurses (M.S.) — 44–52 units

Required Core Courses (44 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>NURS 702</td>
<td>Health Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 703</td>
<td>Education, Informatics, and eTechnology in Advanced Nursing Practice</td>
<td>3</td>
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<tr>
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<td>Health Care Policy and Nursing Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 711</td>
<td>Advanced Physical Assessment Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 715</td>
<td>Pharmacological Principles Across the Life Span</td>
<td>3</td>
</tr>
<tr>
<td>NURS 716</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning I</td>
<td>3</td>
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<tr>
<td>NURS 717</td>
<td>Advanced Pathophysiology and Diagnostic Reasoning II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 720</td>
<td>Epidemiology and Biostatistics in Advanced Practice Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 721</td>
<td>Program Planning and Financial Management in Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 732</td>
<td>Ethics in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 794</td>
<td>Research and Evidence-Based Practice in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 801</td>
<td>Graduate Nursing Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 802</td>
<td>Graduate Nursing Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 895 or NURS 898</td>
<td>Applied Research in Nursing or Master’s Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

The Family Nurse Practitioner Concentration

The Family Nurse Practitioner (FNP) concentration requires 52 units and a total of 600 clinical hours. The FNP concentration is designed to prepare FNPs for primary care practice. The following courses are required in addition to the 44 units of RN-MSN required core courses. Family Nurse Practitioner students take NURS 810, NURS 804, and NURS 811 in lieu of NURS 702, NURS 801, and NURS 802.

Family Nurse Practitioner Concentration — 19 units

<table>
<thead>
<tr>
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<td>NURS 708</td>
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<tr>
<td>NURS 804</td>
<td>Professional Issues and Nurse Practitioner Skills</td>
<td>3</td>
</tr>
<tr>
<td>NURS 810</td>
<td>Family Nursing Practitioner Practicum I</td>
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<tr>
<td>NURS 811</td>
<td>Family Nursing Practitioner Practicum II</td>
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</tr>
<tr>
<td>NURS 812</td>
<td>Family Nursing Practitioner Practicum III</td>
<td>4</td>
</tr>
</tbody>
</table>
PHYSICAL THERAPY AND CLINICAL LABORATORY SCIENCE

College of Health and Social Sciences
Dean: Alvin Alvarez

Physical Therapy Program
HSS 118
Phone: (415) 338-2001
Fax: (415) 338-0907
Email: gpt@sfsu.edu
Website: pt.sfsu.edu (http://www.pt.sfsu.edu)

Director: Linda Wanek - San Francisco State University
Director: Kimberly Topp - University of California, San Francisco
Graduate Coordinators: L. Wanek, K. Topp

Clinical Laboratory Science Internship Program
SCI 202
Phone: (415) 338-2332
Fax: (415) 338-7747
Email: sfscsl@sfsu.edu
Website: cls.sfsu.edu (http://cls.sfsu.edu)

Program Director: Susan Kazarian

Program
The Physical Therapy degree is offered jointly with the University of California, San Francisco.

Professors
Allen, Byl, Hallum, Noble, Radtka, Topp, Wanek

Associate Professors
Jaramillo, Lui, Rosi, Souza

Assistant Professors
Lee, Fitzsimmons

Associate Clinical Professor
Pawlowsky

Assistant Clinical Professors (UCSF/SF State)
DaPrato, Pitsch, Scheid, Smoot

Lecturers
Andrade, Brand-Perez, Carlisle, Holland, Hutto, Ide-Don, Leff, McCarthy, Scalise, Sokolski

Clinical Laboratory Science Internship Program
Lecturers
Kazarian, Silverman, Coleman, Kouyoumdjian, Nusrat, Low

Doctorate
- Doctor of Physical Therapy (p. 558)

Certificate
- Graduate Certificate in Clinical Laboratory Science (p. 561)

Doctor of Physical Therapy

Doctor of Physical Therapy (DPT) Program
Students planning to become a physical therapist apply to the Entry Level DPT Program. This is a three-year program (36 months) including 34 weeks of full-time clinical experiences. The DPT Program is accredited by the APTA Commission on Accreditation in Physical Therapy Education. It has also been approved by the University of California, California State University, California Post-Secondary Education Committee (CPEC) and the Western Association of Schools and Colleges (WASC).

This program is designed to prepare scholars, clinicians, educators, collaborative clinical researchers, administrative managers and community leaders. The program accepts 50 students and requires 36 months of study (including summers). The curriculum is built on a strong theoretical foundation in basic, medical and applied sciences. Critical thinking and clinical reasoning are woven into all aspects of the program and creative problem-solving skills are developed to work with patients to mitigate disability, optimize function and maintain positive health.

Courses are held at San Francisco State University and the University of California, San Francisco campuses. Clinical experiences occur at affiliated sites throughout California. Graduates are well prepared to pass the State Licensing Examination and are considered top candidates for positions in a variety of physical therapy venues.

Career Outlook
The career outlook for physical therapists is very good with graduates employed in acute and rehabilitation hospitals, private practice, outpatient clinics, schools, community agencies, and academic programs.

Entry Level Doctor of Physical Therapy (DPT)
Admission Requirements to Program
Fifty students are admitted to the DPT program each June. Applicants must hold a bachelor’s degree from a regionally accredited institution and meet all general admissions requirements for graduate study at both San Francisco State University and the University of California, San Francisco. Although any undergraduate major is acceptable, for students in the initial stages of undergraduate preparation, a major in kinesiology or the biological sciences tends to be the most direct route into a physical therapy program. All applicants must have completed the program prerequisites before entry. Students taking combined anatomy/physiology courses must complete two semesters or three quarters of work. Applicants without a strong science background should take additional science courses to demonstrate an ability to succeed in science-based course work.

Required Basic Prerequisite Courses

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry with laboratory (1 Year)</td>
<td>10</td>
</tr>
</tbody>
</table>
General Physics with laboratory (1 Year) No survey courses 8
Human or Comparative Anatomy with laboratory 3
Human Physiology with laboratory 4
General Microbiology or Related Upper Division Biology course 3

Social/Psychological Sciences
Title Units
Abnormal Psychology 3

Applied Sciences
Title Units
Introduction to Statistics 3

Highly Recommended Courses
Title Units
Biomedical Ethics 3
Organic Chemistry 3
Motor Learning or Motor Control 3
Developmental Psychology or Motor Development
Neurosciences/Neuropathology 3
Exercise Physiology 3
Structural or Anatomical Kinesiology 3

To be eligible for admission consideration, students must meet the following criteria:

- Hold a bachelor’s degree from a regionally accredited institution.
- Meet the Graduate School requirements of the University of California and the California State University. More specifically, students must have an overall baccalaureate GPA of 3.0 or above.
- A 3.0 GPA or above in college course work in the basic sciences including the prerequisites specified above.
- Submit Graduate Record Examination scores. Scores must be no more than five years old. In order to be competitive, we recommend applicants score at a minimum 50th percentile on both the verbal and quantitative reasoning sections of the GRE exam, and at least a 4.5 on the analytical writing section. Applicants are encouraged to retake the exam if they score below the recommended minimums. If an applicant submits multiple GRE scores, the overall best score from each section is counted. Scores must be submitted to PTCAS program code #7591 U CA San Francisco Phys Therapy no later than the application deadline.
- Be able to demonstrate understanding of the work and profession of physical therapy, gained through paid or volunteer experience (minimum of 150 hours) in a variety of settings under the supervision of a physical therapist.
- Supply three strong letters of recommendation regarding potential to complete the program and personal compatibility with physical therapy as a profession. At least one letter must be from a physical therapist.

Application Process
Students must submit two applications, which are submitted separately, but in parallel. Application materials consist of:

1. The Centralized Physical Therapy Application (PTCAS), and
2. The UCSF Supplemental Physical Therapy Application.

Both applications are accessible at ptrehab.ucsf.edu/application-requirements (http://ptrehab.ucsf.edu/application-requirements). The deadline for both applications is OCTOBER 1 (midnight, PST) of the year prior to desired entry.

Following preliminary evaluation, a selection of applicants will be invited to interview. Following an interview and an assessment of writing skills, 50 students will be accepted for admission to the physical therapy program. Once accepted into the program, students will then complete an online application for admission to SF State.

Written English Proficiency Requirement
Level One
Students must meet the first level of proficiency in written English as a condition of admission to the physical therapy program. Students must complete the GRE analytical writing section prior to enrollment. Evaluation of writing skills is also based upon an essay written at the time of the applicant’s scheduled interview.

Level Two
The second level of written English proficiency is demonstrated through course projects involving written manuscripts during years one and two of the program, and the culminating experience project during the student’s final year in the program.

Advancement to Candidacy
Students are advanced to candidacy based on a Qualifying Assessment that consists of:

1. overall 3.0 GPA in academic coursework;
2. satisfactory performance on all practical exams in clinical coursework;
3. satisfactory performance in all clinical clerkships as judged by meeting all required milestones on the Clinical Performance Index; and,
4. score of 80% or better on each of three clinically based, board style examinations that evaluate critical thinking and problem-solving.

Culminating Experience
Students research and write an in-depth evidence-based review of a clinical problem following the criteria established in PT 209 and PT 910 courses. The manuscripts must be prepared in a publication-ready journal format as well as presented orally to an audience of faculty and peers.

Courses shown with quarter-unit values are taken at the UCSF. Courses shown with semester-unit values are assigned to SF State. At SF State, courses numbering 700 or higher are graduate courses. At the UCSF, courses with numbers between 100 and 199 are at the upper division level; courses with numbers between 200 and 399 are graduate courses.
## Doctor of Physical Therapy

### Program Overview

#### Basic and Applied Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SF State Semester Units</th>
<th>UCSF Quarter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT 207</td>
<td>Neuroscience</td>
<td>3</td>
<td>5</td>
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<tr>
<td>KIN 746</td>
<td>Clinical Exercise Physiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 121</td>
<td>Mammalian Physiology I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 122</td>
<td>Mammalian Physiology II</td>
<td>3</td>
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<tr>
<td>PT 200A</td>
<td>Neuromusculoskeletal Anatomy</td>
<td>6</td>
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</tr>
<tr>
<td>PT 200B/C</td>
<td>Neuromusculoskeletal Anatomy</td>
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<tr>
<td>PT 205</td>
<td>Functional Anatomy Review (elective)</td>
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<tr>
<td>PT 706</td>
<td>Structure, Function and Motion in Physical Therapy</td>
<td>2</td>
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</table>

#### Medical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SF State Semester Units</th>
<th>UCSF Quarter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PATH 135.01</td>
<td>Pathology</td>
<td>3</td>
<td></td>
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<tr>
<td>PT 110</td>
<td>Orthopedics &amp; Rehabilitation: Diagnosis &amp; Treatment</td>
<td>2</td>
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<tr>
<td>PT 111</td>
<td>Neurology &amp; Rehabilitation: Diagnosis &amp; Treatment</td>
<td>3</td>
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<tr>
<td>PT 112</td>
<td>Human Growth and Development Across the Life Span</td>
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<tr>
<td>PT 210</td>
<td>Radiology for Physical Therapy</td>
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<tr>
<td>PT 211</td>
<td>Pharmacology for Physical Therapy</td>
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<tr>
<td>PT 212A</td>
<td>Muscle Biology and Therapeutic Exercise</td>
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<tr>
<td>PT 212B</td>
<td>Advanced Therapeutic Exercise Prescription</td>
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### Applied Social Sciences

<table>
<thead>
<tr>
<th>Course</th>
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<th>SF State Semester Units</th>
<th>UCSF Quarter Units</th>
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<tbody>
<tr>
<td>PT 704</td>
<td>Education, Health Promotion, Wellness and Prevention in Physical Therapy</td>
<td>2</td>
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<tr>
<td>PT 705</td>
<td>Administration and Organization in Physical Therapy</td>
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<tr>
<td>PT 735</td>
<td>Psychosocial Aspects in Rehabilitation Sciences, Part I</td>
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<td>PT 736</td>
<td>Ecological and Organizational Issues in Rehabilitation</td>
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<tr>
<td>PT 737</td>
<td>Psychosocial Issues in Rehabilitation Science, Part II</td>
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### Research/Teaching

<table>
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<th>Title</th>
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<th>UCSF Quarter Units</th>
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<tbody>
<tr>
<td>PT 215</td>
<td>Compassion, Accountability, Responsibility &amp; Excellence (CARE)</td>
<td>1</td>
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<tr>
<td>PT 251A</td>
<td>Research Design</td>
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<tr>
<td>PT 215B</td>
<td>Research Design</td>
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<tr>
<td>PT 419A</td>
<td>Research Seminar</td>
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<tr>
<td>PT 419B</td>
<td>Research Seminar</td>
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</tr>
<tr>
<td>PT 419C</td>
<td>Research Seminar</td>
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<tr>
<td>PT 419D</td>
<td>Research Seminar</td>
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<tr>
<td>PT 899</td>
<td>Independent Study</td>
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<tr>
<td>PT 206</td>
<td>Application of Principles of Study</td>
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### Physical Therapy Sciences

<table>
<thead>
<tr>
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<th>UCSF Quarter Units</th>
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<tbody>
<tr>
<td>PT 201A</td>
<td>Physical Therapy Assessment</td>
<td>3</td>
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</tr>
<tr>
<td>PT 202</td>
<td>Therapeutic Modalities</td>
<td>2</td>
<td></td>
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</tbody>
</table>
PT 213 | Neurological Pathokinésiology III | 2  
--- | --- | ---  
PT 700 | Multisystem Pathokinésiology | 4  
PT 710 | Neurological Pathokinésiology | 4  
PT 711 | Neurological Pathokinésiology II | 3  
PT 720 | Cardiopulmonary Pathokinésiology | 2  
PT 741 | Musculoskeletal Pathokinésiology I | 4  
PT 742 | Musculoskeletal Pathokinésiology II | 4  
PT 743 | Musculoskeletal Pathokinésiology III | 3  

### Evidence Based Practice

<table>
<thead>
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<th>Title</th>
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<th>UCSF Quarter Units</th>
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<tbody>
<tr>
<td>PT 209</td>
<td>Evidence Based Practice</td>
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<tr>
<td>PT 908</td>
<td>Professional Colloquium</td>
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<tr>
<td>PT 910</td>
<td>Evidence Based Practice</td>
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### Clinical Care

<table>
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<th>Title</th>
<th>SF State Semester Units</th>
<th>UCSF Quarter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 207</td>
<td>Medical Screening for Physical Therapists</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>PT 400A</td>
<td>Grand Rounds</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PT 400B</td>
<td>Grand Rounds</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PT 400C</td>
<td>Grand Rounds</td>
<td>1</td>
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<tr>
<td>PT 410</td>
<td>Integrated Clinical Experience</td>
<td>0.5</td>
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<tr>
<td>PT 418</td>
<td>Mentored Clinical Internship</td>
<td>9</td>
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<tr>
<td>PT 420A</td>
<td>Mentored Research Concentration</td>
<td>2.5</td>
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<tr>
<td>PT 420B</td>
<td>Mentored Research Concentration</td>
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<tr>
<td>PT 420C</td>
<td>Mentored Research Concentration</td>
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<td></td>
</tr>
</tbody>
</table>

### Graduate Certificate in Clinical Laboratory Science

Advisors: Coleman, Kazarian, Silverman

### Program Scope

The SF State Clinical Laboratory Science (CLS) Internship Certificate program provides students with the theoretical and practical skills necessary to work in hospitals, clinics, or biomedical research environments. The program prepares students at the post-baccalaureate level to take the national board examination for certification as Clinical Laboratory Scientists. In addition, the program is fully accredited by the National Accrediting Agency for Clinical laboratory Sciences (NAACLS) and meets the educational standards required for licensure as a CLS by the California State Department of Health, Laboratory Field Services (LFS). The program seeks to develop critical thinking skills for clinical and administrative decision making in the complex and ever-changing healthcare environment.

### Career Outlook

Clinical laboratory scientists are employed in healthcare settings such as medical laboratories within large medical centers, community hospitals, public health, clinics and private industry. Excellent employment opportunities exist in research and development, medical informational technology, laboratory administration and education.

### Admission to Program

Requirements are:

- Earned bachelor’s degree from a regionally accredited university in related science major of microbiology, biology or equivalent. Students with international degrees should check the CLS website for more information (http://cls.sfsu.edu).
- Overall GPA of at least 3.0 or GPA of at least 3.0 in last 60 units (90 quarter) (3.0 GPA).
- A score of 4 or better on a proctored writing examination administered prior to admission or for international students, at least 80 on the internet-based TOEFL, or a 550 on the paper-based test with a Test of Written English (TWE) of at least 4.
- Science course preparation to include courses in hematology, immunology, medical microbiology, quantitative chemistry analysis, biochemistry, physics, and college-level mathematics.
- Eligibility for a trainee license from the State of California Department of Health, Laboratory Field Services.
- Completion of the application form, which includes three letters of reference.
• Proof of health insurance
• Background checks may be required.

Curriculum

The CLS program consists of

1. a 16-week semester of didactic and laboratory work and
2. a 40-week off-campus internship at affiliated clinical laboratory sites.

Students enroll for 18 units for the pre-clinical semester. For the 40-week off-campus portion, students enroll in a combination of regular university sessions and special sessions through the College of Extended Learning.

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 701</td>
<td>Clinical Chemistry and Urinalysis</td>
<td>4</td>
</tr>
<tr>
<td>CLS 706</td>
<td>Contemporary Clinical Science Issues</td>
<td>2</td>
</tr>
<tr>
<td>CLS 731</td>
<td>Clinical Hematology and Laboratory Application</td>
<td>4</td>
</tr>
<tr>
<td>CLS 753</td>
<td>Clinical Microbiology for the CLS Intern</td>
<td>4</td>
</tr>
<tr>
<td>CLS 790</td>
<td>Clinical Serology and Immunohematology</td>
<td>4</td>
</tr>
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</table>

Total Units First Semester: 18

Subsequent 40 Weeks

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 702</td>
<td>Clinical Laboratory Science Internship I (4 units taken twice)</td>
<td>8</td>
</tr>
<tr>
<td>CLS 705</td>
<td>Clinical Laboratory Science Internship II (3 units taken twice)</td>
<td>6</td>
</tr>
<tr>
<td>CLS 709</td>
<td>Clinical Laboratory Science Internship III</td>
<td>3</td>
</tr>
<tr>
<td>CLS 707</td>
<td>CLS Bridge to Clinical Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units Subsequent 40 Weeks: 20

Total Units for Entire Program: 38

English Proficiency Requirement

Level One

Students complete a proctored essay at the time of their application interview. If necessary, remediation will be fulfilled by successful completion of SCI 614 or equivalent course.

Level Two

Successful completion of written professional documents as required for a leadership role in professional environments.
Masters
- Master of Public Administration (p. 563)

Master of Public Administration
Graduate Advisors: Gen, Joaquin, Shea, Stowers, Wang

Admission to Program
The graduate admission application to San Francisco State University is a two-part process. You must submit Part One and Part Two of your graduate admission application simultaneously by the deadline to be considered for admission.

Part one:
Apply online through CSU Mentor for a Graduate Program (http://www.csumentor.edu/AdmissionApp/grad_apply.asp). The Office of Graduate Admissions no longer accepts paper applications to graduate programs.

Send all required documents noted on your online SF Gateway Portal “To Do List” to the Division of Graduate Studies:

Graduate Admissions
SF State University
1600 Holloway Ave, ADM 250
San Francisco, CA 94132

Part two:
Submit the following materials directly to the Public Administration Program:

1. Statement of purpose to the SF State MPA Program. This statement of purpose should describe the following information in a coherent essay (in no more four pages, double spaced):
   - Life experiences that have led you to an interest in public service (public or nonprofit)
   - Background in the public service, including any work or volunteer experience you might have in public or nonprofit agencies
   - Areas of specific interests in the public service, including what has led you to these specific interests
   - Career and professional goals and aspiration
   - How the MPA degree will be helpful and consistent with your career goals and aspirations
   - Why this is the right time in your career to come into a MPA program and seek the degree
   - Why the SF State MPA degree program is a good fit for you and your career / professional goals

2. Your current resume.
3. Two (2) letters of recommendation. These should be from individuals who know the candidate well and can address their potential for succeeding in graduate school. The letters do not have to be from faculty members at an academic institution, they can be from supervisors or others familiar with the candidate’s work.

Send the documents requested in Part TWO directly to the Public Administration Program:

Public Administration Program
835 Market Street, 6th Floor, Suite 679
San Francisco, CA 94103

Applicants must meet all university admission requirements to be accepted into the MPA program. Applicants are judged on a competitive basis.

Potential applicants who are still completing their undergraduate work should strengthen their preparation for the program with courses in public administration, economics, politics, public policy, and research techniques as well as experience working in either the public or nonprofit sectors.

**Written English Proficiency Requirement**

The University has a requirement for written English proficiency that is to be assessed at two different levels.

**Level One**

Satisfactory performance on the Statement of Purpose should be achieved in order to gain admission to the degree program.

**Level Two**

Master’s thesis or strategic assessment memo from P A 890 must be written at a level commensurate with professional standards in the field.

**Advancement to Candidacy**

Approval of a student’s proposed course of study advances a student to candidacy. Completion of the Advancement to Candidacy (ATC) requirements qualifies the student to apply for the award of the master’s degree. Besides meeting University requirements for advancement to candidacy, students are required to:

- Complete prerequisites and any other conditions specified by the program.
- Complete at least 6 units of work in graduate courses.
- Maintain a cumulative 3.0 GPA in all course work and in courses specified in the Advancement to Candidacy.
- Consult regularly with a program advisor.

Upon advisement, upper division and graduate courses in other disciplines may be accepted if they contribute to a coherent program related to the student’s educational objectives.

Courses that are required for the major must be completed with a grade of B- or better. A minimum grade point average of 3.0 must be maintained.

**Culminating Experience Requirement**

Students in the public administration program can choose between two options for their culminating experience:

Students may choose to take a capstone course (P A 890) and complete a written comprehensive examination, the Strategic Assessment Memorandum (SAM). The capstone course focuses on synthesizing the knowledge, skills, and abilities learned in the program through the analysis of case studies from the field. Students complete their portfolio, analyze case studies, and present their strategic assessment of what managers operating in those cases should do to resolve them. The strategic assessment memo is the written presentation of each student’s analysis and plan for that case.

Students may also choose to undertake a traditional social science research project, the Master’s Thesis (P A 898) option. Working with a faculty committee, students write a prospectus, have it approved the semester before undertaking the research, and write the thesis. After initiating this option, students must enroll each additional semester in the 499 CEL course until the thesis is completed.

**Public Administration Program Portfolio**

San Francisco State University Public Administration students graduate with a portfolio of work products and evaluations of that work, which demonstrates the knowledge, skills, and abilities acquired in the public administration program. The required components of the portfolio are core competencies and skills crucial for the success of nonprofit and public administrators. Students publish selected course work along with explanations of their accomplishments in the degree program on the platform and use it to connect with others in the field.

**Eugene I. Pearl Memorial Scholarship**

The Eugene I. Pearl Memorial Scholarship is awarded on a competitive basis to students specializing in urban administration. This scholarship reimburses students for the cost of their textbooks.

**Cho Public Service Scholarships**

Cho Public Service Scholarships are awarded on a competitive basis for incoming and continuing students. Students are selected on the basis of outstanding academic achievement, outstanding community service, and potential for excellence in the public and nonprofit sectors.

**Merritt Community Capital Scholarship**

The Merritt Community Capital Scholarship Fund in Public Administration is awarded on a competitive basis to students interested in the fields of affordable housing, finance, development, and management. Affordable housing is an integral component of public administration and community development strategies, and the career development of committed affordable housing professionals are vital to the continued success of our current housing delivery and management systems.

For more information regarding scholarships, visit AcademicWorks (https://sfsu.academicworks.com).

**Public Administration (MPA) — 39 — 42 units**

**Core Requirements (12 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>P A 700</td>
<td>Foundations of Governance and Management</td>
<td>3</td>
</tr>
<tr>
<td>P A 705</td>
<td>Design and Consumption of Research</td>
<td>3</td>
</tr>
<tr>
<td>P A 706</td>
<td>Applied Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>P A 715</td>
<td>Policy Process and Civic Engagement</td>
<td>3</td>
</tr>
</tbody>
</table>

**Management Perspectives (12 units)**

Select 12 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>P A 720</td>
<td>Organization Design and Change Management</td>
<td>3</td>
</tr>
<tr>
<td>P A 722</td>
<td>Performance Management and Planning</td>
<td>3</td>
</tr>
<tr>
<td>P A 724</td>
<td>Economic Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>P A 725</td>
<td>Managing Human Capital</td>
<td>3</td>
</tr>
<tr>
<td>P A 727</td>
<td>Program and Service Delivery</td>
<td>3</td>
</tr>
<tr>
<td>P A 730</td>
<td>Resource Allocation and Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Internship Requirement (0 - 3 units)
P A 803  Public Affairs Internship  3

Internship requirement may be waived upon evidence and approval of previous or concurrent educationally appropriate work experience in public policy or administration.

Emphasis or Electives on Advisement (12 units)
See below.

Culminating Experience Requirement (3 units)
Select one of the following:
P A 890  Capstone Course in Public Administration  3
P A 898  Master’s Thesis  3

Emphases
Nonprofit Administration (12 units)
P A 744  Nonprofits, Public Policy and Society  3
Select 9 units from the following:
P A 740  Public Service Management  9
P A 741  Emerging Trends in the Public Service
P A 745  Perspectives on Nonprofit Management
P A 746  Application of Organizational Learning in Nonprofits
P A 750  Financial Management in the Public Service
P A 753  Decision Making in the Public Sector
P A 754  Comparative Perspectives in the Public Service
P A 755  Information and Knowledge in the Public Service
P A 757  E-Government
P A 762  Leading Change Across Sectors
P A 775  Program Evaluation
M S 800  Museum Management, Law, and Ethics
M S 860  Fundraising in Museums

Public Policy (12 units)
P A 770  Policy Analysis  3
P A 775  Program Evaluation  3
Select 6 units from the following:
P A 750  Financial Management in the Public Service
P A 753  Decision Making in the Public Sector
P A 776  Environmental Policy
P A 777  Criminal Justice Administration
P A 783  Urban Housing Policy
USP 433  Urban Transportation
USP 570  Urban Health Policy
USP 560  Urban Poverty and Policy

Public Service Management (12 units)
P A 740  Public Service Management  3
Select 9 units from the following:
P A 750  Financial Management in the Public Service
P A 753  Decision Making in the Public Sector
P A 754  Comparative Perspectives in the Public Service
P A 755  Information and Knowledge in the Public Service
P A 757  E-Government

Urban Administration (12 units)
P A 780  Urban Administration  3
Select 9 units from the following:
ECON/USP 535  Urban Economics
GEOG/USP 433  Urban Transportation
GEOG 666  Geography of Garbage: Recycling and Waste Reduction
GEOG 667  Environmental Justice: Race, Poverty, and the Environment
GEOG 668  Politics, Law, and the Urban Environment
GEOG 858  Seminar in Environmental and Land Use Planning
P A 741  Emerging Trends in the Public Service
P A 750  Financial Management in the Public Service
P A 755  Information and Knowledge in the Public Service
P A 757  E-Government
P A 762  Leading Change Across Sectors
P A 775  Program Evaluation
P A 781  Sustainable Development in Cities
P A 783  Urban Housing Policy
P A 784  Intergovernmental Relations
USP 560  Urban Poverty and Policy
USP 565  Social Policy and Family Systems
USP 570  Urban Health Policy
USP 580  Housing Policy and Planning

Environmental Administration (12 units)
The elective emphasis in Environmental Administration is offered jointly by the Public Administration Program (School of Public Affairs and Civic Engagement) and the Department of Geography & Environment. Students should take P A 776, one other course from the list of MPA courses below, and two courses from the list of Geography courses below.
P A 776  Environmental Policy  3
Select 9 units from the following:
P A 781  Sustainable Development in Cities
ENVS 470  Climate Politics and Policy
ENVS 570  Applied Local Sustainability
GEOG 433  Urban Transportation
GEOG 435  Geography of Global Transportation
GEOG 600  Environmental Problems and Solutions
GEOG 647  Geography of Water Resources
GEOG 658  Land-Use Planning
GEOG 651  San Francisco Bay Area Environmental Issues
GEOG 652  Environmental Impact Analysis
GEOG 751  Environmental Management
GEOG 820  Human and Social Geography
GEOG 858  Seminar in Environmental and Land Use Planning

Criminal Justice Administration (12 units)
P A 777  Criminal Justice Administration  3
Select 9 units from the following:
P A 762  Leading Change Across Sectors
P A 775  Program Evaluation

San Francisco State University Bulletin 2017-2018
A variety of 1 unit courses can also be taken as electives. Students can take a maximum of three (3) 1-unit classes to count toward the degree.

- **C J 505** International Criminal Law (GE)
- **C J 515** Extremism as Crime
- **C J 520** Construction of Crime and Justice
- **C J 525** Global Restorative Justice and Corrections
- **C J 530** Geographies of Social Control and Urban Diversity
- **C J 550** School Violence and Discipline
- **C J 600** Youth Gangs in Community Context
- **P A 741** Emerging Trends in the Public Service
- **P A 750** Financial Management in the Public Service
- **P A 753** Decision Making in the Public Sector
- **P A 754** Comparative Perspectives in the Public Service
- **P A 755** Information and Knowledge in the Public Service
- **P A 757** E-Government
- **P A 762** Leading Change Across Sectors
- **P A 775** Program Evaluation

- **P A 707** Qualitative Data Analysis
- **P A 708** Qualitative Interviewing
- **P A 709** Practicum in Statistical Software Applications
- **P A 743** Collaborative Government
- **P A 747** Organizational Ethics: Doing Good, Being Good
- **P A 748** Negotiation and Compromise
- **P A 751** Pensions and Pension Administration
- **P A 756** Data Mining and Visualization
- **P A 763** Personal Leadership Development
RECREATION, PARKS, AND TOURISM

College of Health and Social Sciences
Dean: Alvin Alvarez

Recreation, Parks, and Tourism Department
HSS 307
(415) 338–2030
Email: recdept@sfasu.edu
Website: recdept.sfsu.edu (http://recdept.sfsu.edu)

Chair/Undergraduate Coordinator: Erik Rosegard
Graduate Coordinator: Jackson Wilson

Program Scope
The Recreation, Parks, and Tourism (RPT) Department at SF State, in existence since 1946, has established a reputation for excellence. From distinguished faculty with considerable experience in teaching, research, and service, to a dynamic curriculum based on extensive feedback from students, alumni, current trends, and an advisory board of RPT professionals, students acquire the knowledge and skills to:

Engineer Experiences that Engage, Empower, and Educate.

One of the program's most important resources for faculty and the curriculum is the diversity and vitality of the San Francisco Bay Area. The number of agencies, institutions, and leisure enterprises makes the region a hands-on classroom and living laboratory for public, private, and nonprofit recreation; local, state, and national parks; and domestic and international tourism.

Vision
A world where leisure permeates all facets of life.

Mission
To advance and advocate for the field of recreation, parks, and tourism through transformative education, scholarship, and service.

Bachelor of Science
The department offers a Bachelor of Science in Recreation, Parks, and Tourism Administration, which is accredited by the National Council on Accreditation of Parks, Recreation, and Tourism (COAPRT). Accreditation provides many benefits including credibility and broader recognition within the academic and professional community. The RPT program delivers academic content that is current, relevant, and experiential. The curriculum leads to a 400 hour, 15 unit, full-time internship at one of 400+ approved RPT organizations. This culminating experience often leads to permanent positions and a career in RPT – a welcome transition from academia.

Master of Science
The Master of Science in Recreation, Parks, & Tourism develops leaders in the RPT profession and prepares students for an advanced degree (e.g., Ph.D.). The curriculum allows students to focus on their interest area within the field. Courses are taught by RPT faculty from three different California State University campuses who have a wide range of skills, interests, and expertise. Core classes are hybrid (partially in-person and partially online), which allows for geographical freedom and meaningful face-to-face experiences. Students are almost exclusively accepted for the fall in order to build a cohort with strong professional and social ties.

Program Competencies
The curriculum will focus on the following nine competencies, which all have assigned courses and associated program and student learning outcomes:

- Communication (professional, nonverbal, verbal)
- Foundations (philosophy, history, science)
- Information Technology (application, research, reporting)
- Leadership (ethics, interpersonal, interpersonal)
- Management & Administration (finance, human capital, structures)
- Programming (design, implementation, evaluation)
- Profession & Industry (nature/scope, principles/practices, trends/issues)
- Sustainability (economics, environment, equity)
- Wellness (dimensions, application, assessment)

Students wanting to receive a Bachelor of Science in Recreation, Parks, and Tourism Administration, a Minor in Recreation, or a Master of Science in Recreation, Parks, and Tourism should review the Department website: recdept.sfsu.edu (http://recdept.sfsu.edu), then contact the department where they will be directed to a faculty advisor related to their area of interest. Students pursuing a career in the nonprofit sector can also obtain a certificate in Youth and Human Services Nonprofit Administration. All RPT programs follow department and university policy, which include:

- All courses used in the major, minor, or certificate programs must be completed with letter grades (CR/NC option is not allowed) with the exception of RPT 690.
- Courses that are required for the major, minor, or certificate programs must be completed with a minimum grade point average of 2.0 and a letter grade of C or better [a grade of C or better is required in RPT 600GW Professionalism in Recreation, Parks, and Tourism - GWAR – the department's Graduation Writing Assessment Requirement (GWAR) course].
- Students are required to adhere to all department and university requirements stated in this Bulletin and on the department website.

Career Outlook
Every year, millions of people spend an increasing amount of time in pursuit of beneficial recreation, leisure, and touristic experiences. As the world’s leading industry, recreation and leisure/tourism spending accounts for approximately one trillion dollars per year; this equates to one-third of all consumer spending. According to the Occupational Outlook Handbook published by the U.S. Department of Labor, the overall employment in the leisure/tourism and hospitality industry will grow 19% to 44% from 2010 to 2020.

There is a continued demand for full-time, trained recreation, park, and tourism professionals to assess, plan, implement, and evaluate programs and services in the public, for-profit, and nonprofit sectors within the leisure service delivery system. Thus, the recreation profession offers diverse employment opportunities for individuals who are enthusiastic, enjoy working with people, and have acquired the necessary professional skills. Although not exhaustive, the below list provides career categories within the RPT profession.
• Attractions (entertainment venues, museums, theme parks, wineries, resorts – Alcatraz, Robert Mondavi Winery, Walt Disney World)
• Collegiate (campus recreation, intramural sport and wellness programs and facilities – Mashouf Wellness Center, SF State)
• Corporate (employee recreation, social, incentive, and wellness programs – Apple, Genentech, Google, Kaiser Permanente, Red Bull)
• Events (planning and managing weddings, retreats, incentive travel, conferences, sporting events – Moscone Center, AT&T Park)
• Military (armed forces recreation and entertainment, MWR programs and facilities – Travis Air Force Base)
• Nonprofit (after-school programs, volunteer services, social entrepreneurship – YMCA, Boys & Girls Club, Sierra Club, LYRIC)
• Outdoor (parks, summer camps, adventure outfitters, ranger, educator – National Park Service, REI, Backroads, Outward Bound)
• Private Membership (golf, tennis, swim, health, social, yacht, country clubs – Olympic Club, Bohemian Club, The Battery)
• Public (every city has a community, aquatic, wellness, sport, or senior center – San Francisco Recreation & Park Department)
• Therapeutic (improving quality of life using recreation – VA hospital, Giant Steps, Pomeroy Center, Environmental Travel Companions)
• Tourism (adventure, alternative, cultural, eco, health/medical, nature, sport tourism – Backroads, Alcatraz, Extranomical Tours)
• Travel (cruise ships, guest services, destination management & travel companies – Carnival Cruise Line, Peek, SF Travel)

The department offers courses that satisfy General Education (GE) requirements, and also a variety of activity classes, such as sailing and rock climbing, which are open to all students. GE requirements that are satisfied by a specific course appear in that course’s description; or see the General Education section of this Bulletin for a list of all approved GE courses.

Professors
Roberts, Rosegard, Tierney

Associate Professors
Látková, Wilson

Assistant Professor
Yoshino

Lecturers
Brandell, De, Kumli, McAdams, McGinnis, Metcalf-Tobin, Pon, Thapar

Major
• Bachelor of Science in Recreation, Parks, and Tourism Administration (p. 568)

Minor
• Minor in Recreation (p. 573)

Certificate
• Certificate in Youth and Human Services Nonprofit Administration (p. 573)

Masters
• Master of Science in Recreation, Parks, and Tourism (p. 574)

Bachelor of Science in Recreation, Parks, and Tourism Administration

Recreation, Parks, and Tourism Administration majors who successfully complete RPT 600GW [formerly RPT 660 GW] in fall 2010, or thereafter, will have satisfied the University Graduation Writing Assessment Requirement (GWAR).

Recreation, Parks, and Tourism Administration Major (B.S.) – 51 units

Foundation (33 units)
RPT 200 Foundations of Recreation, Parks, and Tourism 3
RPT 300 Leadership in Recreation, Parks, and Tourism 3
RPT 325 Information Technology in Recreation, Parks, and Tourism 3
RPT 350 Facilitating Wellness Through Leisure 3
RPT 390 Leisure Travel and Tourism 3
RPT 400 Programming in Recreation, Parks, and Tourism 3
RPT 410 Therapeutic and Inclusive Recreation 3
RPT 440 Urban Recreation and Parks 3
RPT 500 Organization and Administration of Recreation, Parks, and Tourism 3
RPT 520 Parks and Outdoor Recreation Resources 3
RPT 600GW Professionalism in Recreation, Parks, and Tourism - GWAR 3

Emphasis Area (3 units)
Select a minimum of one of the following based on interest and advisor approval. Suggested Emphasis Areas and related courses:

Commercial Recreation/Tourism and Events
RPT 340 Conference, Event Planning, and Management 3
RPT 460 Recreation Destination Resorts 3
RPT 540 Start-Up and Sustainable Operations of Tourism, Event and Recreation Enterprises 3
RPT 670 Advanced Conference, Event Planning, and Management 3

Community Recreation/Wellness
RPT 210 Arts and Crafts for Leisur 3
RPT 340 Conference, Event Planning, and Management 3
RPT 445 Recreation Therapy and the Expressive Arts 3

Outdoor Recreation/Natural Resources
RPT 430 Ecology of Outdoor Recreation 3
RPT/ENVS 640 Recreational Use of National Parks and Protected Areas 3

Nonprofit Recreation/Human Services
RPT 210 Arts and Crafts for Leisur 3
RPT 340 Conference, Event Planning, and Management 3
RPT 470 Care Break: Alternative Spring Break Service 3
RPT 570 Developing and Managing Resources in Nonprofit Agencies 3
Internship (15 units)
In the final spring semester, students complete a three unit planning and evaluation (RPT 680) seminar and a 12 unit internship (RPT 690) within an appropriate recreation, parks, or tourism setting. A minimum of 800 hours of paid or volunteer work experience (600 hours in recreation settings), completion of all major courses, and fulfillment of all General Education/University requirements are required prior to enrolling in the internship and seminar courses.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
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<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
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<td>A3</td>
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<td>Written English Communication II</td>
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<td>A4</td>
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<td>Physical Science</td>
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<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 year)

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transfered only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Recreation, Parks, and Tourism Administration Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 51

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Critical Thinking (A3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Critical Thinking (A3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPT 200</td>
<td>Foundations of Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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<tr>
<td>RPT 300</td>
<td>Leadership in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 325</td>
<td>Information Technology in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 350</td>
<td>Facilitating Wellness Through Leisure</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPT 390</td>
<td>Leisure Travel and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 410</td>
<td>Therapeutic and Inclusive Recreation</td>
<td>3</td>
</tr>
<tr>
<td>RPT 440</td>
<td>Urban Recreation and Parks</td>
<td>3</td>
</tr>
<tr>
<td>RPT 520</td>
<td>Parks and Outdoor Recreation Resources</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPT 400</td>
<td>Programming in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 500</td>
<td>Organization and Administration of Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 600GW</td>
<td>Professionalism in Recreation, Parks, and Tourism - GWAR 4</td>
<td>3</td>
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<tr>
<td>Major Emphasis Area 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Eighth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPT 680</td>
<td>Planning and Evaluating Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 690</td>
<td>Internship in Recreation, Parks, and Tourism</td>
<td>12</td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

1. All LLD and SF State Studies requirements (AERM, GP, ES, SJ) are met within the major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Emphasis Area (3 units)**
   Select a minimum of one of the following based on interest and advisor approval. Suggested Emphasis Areas and related courses:
   **Commercial Recreation/Tourism and Events**
   RPT 340 Conference, Event Planning, and Management (3 units)
   RPT 460 Recreation Destination Resorts (3 units)
   RPT 540 Start-Up and Sustainable Operations of Tourism, Event and Recreation Enterprises (3 units)
   RPT 670 Advanced Conference, Event Planning, and Management (3 units)
   **Community Recreation/Wellness**
   RPT 210 Arts and Crafts for Leisure (3 units)
   RPT 340 Conference, Event Planning, and Management (3 units)
   RPT 445 Recreation Therapy and the Expressive Arts (3 units)
   **Outdoor Recreation/Natural Resources**
   RPT 430 Ecology of Outdoor Recreation (3 units)
   RPT 640 Recreational Use of National Parks and Protected Areas (3 units)
   **Nonprofit Recreation/Human Services**
   RPT 210 Arts and Crafts for Leisure (3 units)
   RPT 340 Conference, Event Planning, and Management (3 units)
   RPT 470 Care Break: Alternative Spring Break Service (3 units)
   RPT 570 Developing and Managing Resources in Nonprofit Agencies (3 units)
Certificate in Youth and Human Services Nonprofit Administration

Campus Director: Aiko Yoshino

General Information
The Department of Recreation, Parks & Tourism is proud to offer a Certificate in Youth and Human Services Nonprofit Administration. Nonprofit agencies play an important role in the development and well-being of individuals and communities. To help meet the growing need for qualified leadership in today's nonprofit organizations, the certificate program inspires and prepares undergraduates for entry-level professional positions in the nonprofit sector. Interested students take courses within a broad-based curriculum designed to develop leadership and management skills in nonprofit organizations. Students are required to consult with the certificate campus advisor to determine course work and field experience requirement.

Youth and Human Services Nonprofit Administration Certificate — 24 units

Foundation (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 100</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>RPT 440</td>
<td>Urban Recreation and Parks</td>
<td>3</td>
</tr>
<tr>
<td>RPT 570</td>
<td>Developing and Managing Resources in Nonprofit Agencies</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional Competency Areas (9 units)
Units selected from the following list one course chosen from each area.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT 500</td>
<td>Organization and Administration of Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>S W 302</td>
<td>Introduction to Social Service Organizations</td>
<td>3</td>
</tr>
<tr>
<td>S W/USP/PLSI 660</td>
<td>The Roles of Nonprofit Organizations in Urban Life</td>
<td>3</td>
</tr>
<tr>
<td>TPW 470</td>
<td>Writing Professional Promotions</td>
<td>3</td>
</tr>
<tr>
<td>TPW 480</td>
<td>Writing Technical Documentation</td>
<td>3</td>
</tr>
<tr>
<td>TPW 490</td>
<td>Grantwriting</td>
<td>3</td>
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</tbody>
</table>

Program Planning
Select a minimum of one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E ED 604</td>
<td>Advanced Issues in Collaboration with Families and Communities in ECE</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>RPT 340</td>
<td>Conference, Event Planning, and Management</td>
<td>3</td>
</tr>
<tr>
<td>RPT 380</td>
<td>Developmental Play Processes</td>
<td>3</td>
</tr>
<tr>
<td>RPT 400</td>
<td>Programming in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
</tbody>
</table>

Field Experience (3 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT 560</td>
<td>Current Practices in Parks, Recreation, and Leisure Services (RPT 680 can substitute with approval)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in Recreation

Recreation Minor — 15 units

Foundation (6 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT 200</td>
<td>Foundations of Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 400</td>
<td>Programming in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Area (9 units)
In consultation with an advisor, students select a minimum of nine units from the following electives according to their emphasis area(s):

Community Recreation/Tourism and Events

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT 340</td>
<td>Conference, Event Planning, and Management</td>
<td>3</td>
</tr>
<tr>
<td>RPT 390</td>
<td>Leisure Travel and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 460</td>
<td>Recreation Destination Resorts</td>
<td>3</td>
</tr>
<tr>
<td>RPT 540</td>
<td>Start-Up and Sustainable Operations of Tourism, Event and Recreation Enterprises</td>
<td>3</td>
</tr>
<tr>
<td>RPT 605</td>
<td>Ecotourism Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>RPT 670</td>
<td>Advanced Conference, Event Planning, and Management</td>
<td>3</td>
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</table>

Community Recreation/Wellness

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT 210</td>
<td>Arts and Crafts for Leisure</td>
<td>3</td>
</tr>
<tr>
<td>RPT 340</td>
<td>Conference, Event Planning, and Management</td>
<td>3</td>
</tr>
<tr>
<td>RPT 380</td>
<td>Developmental Play Processes</td>
<td>3</td>
</tr>
<tr>
<td>RPT 410</td>
<td>Therapeutic and Inclusive Recreation</td>
<td>3</td>
</tr>
<tr>
<td>RPT 440</td>
<td>Urban Recreation and Parks</td>
<td>3</td>
</tr>
<tr>
<td>RPT 445</td>
<td>Recreation Therapy and the Expressive Arts</td>
<td>3</td>
</tr>
<tr>
<td>RPT 670</td>
<td>Advanced Conference, Event Planning, and Management</td>
<td>3</td>
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</table>

Nonprofit Recreation/Human Services

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RPT 340</td>
<td>Conference, Event Planning, and Management</td>
<td>3</td>
</tr>
<tr>
<td>RPT 370</td>
<td>Principles of Nonprofit Administration</td>
<td>3</td>
</tr>
<tr>
<td>RPT 410</td>
<td>Therapeutic and Inclusive Recreation</td>
<td>3</td>
</tr>
</tbody>
</table>

Management and Administration
Select a minimum of one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 400</td>
<td>Community Youth Development</td>
<td>3</td>
</tr>
<tr>
<td>H ED 410</td>
<td>Organization and Function of Health Services</td>
<td>3</td>
</tr>
<tr>
<td>RPT 300</td>
<td>Leadership in Recreation, Parks, and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPT 440</td>
<td>Urban Recreation and Parks</td>
<td>3</td>
</tr>
<tr>
<td>RPT 470</td>
<td>Care Break: Alternative Spring Break Service</td>
<td>3</td>
</tr>
<tr>
<td>RRS/SOC 410</td>
<td>Grassroots Organizing for Change in Communities of Color</td>
<td>3</td>
</tr>
<tr>
<td>S W 410</td>
<td>Human Development and the Social Services</td>
<td>3</td>
</tr>
<tr>
<td>S W/USP 456</td>
<td>Urban Community Organizing and Citizen Action</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 510</td>
<td>Adult Supervision and Leadership in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>COMM 321</td>
<td>Communication Theory</td>
<td>4</td>
</tr>
<tr>
<td>H ED 455</td>
<td>Community Organizing and Community Building for Health</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 405</td>
<td>Introduction to Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>P A 775</td>
<td>Program Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>
Master of Science in Recreation, Parks, and Tourism

Graduate Advisors: Latkova, Roberts, Rosegard, Tierney, Wilson, Yoshino

General Information

The mission of the Master of Science in Recreation, Parks, and Tourism (RPT) program is to serve as a catalyst for the development of emerging entrepreneurial leaders who will be change agents and advance the recreation, parks, and tourism profession and society.

The M.S. in Recreation, Parks, and Tourism program prepares students to be employed in supervisory and managerial positions in areas of community recreation and nonprofit leisure services, commercial and private enterprises, and in parks and natural resources management agencies. The degree also offers the underpinning for students who wish to pursue a doctorate at other institutions for advanced research, consulting, and teaching positions. The department offers a foundation of quality education, service, and research that bridges the gaps between theory and practice, knowledge and experience, and critical and creative thinking.

The program is offered in a hybrid format providing the advantages of both online and in-person experiences. The online experiences allow students to eliminate commutes, which may be appealing to persons working full time or with families. The intensive classroom experiences and individual faculty advising build strong relationships within the cohort of students and between the students and RPT faculty. We almost exclusively accept students in the fall to build a cohort of students that often develop strong professional and social ties.

SF State’s RPT M.S. program is part of a collaboration with California State University, Chico, and California State University, Sacramento. This collaboration provides opportunities to network with other students with similar professional interests. It also gives students access to three times as many faculty for teaching, research, and professional networking.

SF State students are provided a strong base of resources and experience at their home campus. Each student will be assigned a home campus faculty member to serve as a mentor and academic advisor. The advisor will guide students through their culminating graduate experience; an applied research project or thesis.

Visit the recreation, parks, and tourism student graduate program website at recdept.sfsu.edu/graduate (http://recdept.sfsu.edu/graduate) for more information.

RPT 440 Urban Recreation and Parks 3
RPT 470 Care Break: Alternative Spring Break Service 3
RPT 570 Developing and Managing Resources in Nonprofit Agencies 3

Outdoor Recreation/Natural Resources
RPT 230 Growth Through Adventure 3
RPT 430 Ecology of Outdoor Recreation 3
RPT 520 Parks and Outdoor Recreation Resources 3
RPT 605 Ecotourism Principles and Practices 3
RPT/ENVS 640 Recreational Use of National Parks and Protected Areas 3

Applying For Admission to the Recreation, Parks, and Tourism Graduate Program

A limited number of highly qualified applicants are accepted for the fall semester of each year. All applicants are required to either have an undergraduate degree in recreation, parks, tourism, or a closely related degree; or at least one year of full-time professional work experience in the profession. Applicants who otherwise qualify but lack a related degree and/or need supplemental background information will be given additional readings and assignments due by the end of their first fall semester.

The graduate admission application to San Francisco State University is a two-part process. You must submit Part One and Part Two of your graduate admission application simultaneously by the deadline to be considered for admission.

Part One:
Apply online through CSU Mentor for a Graduate Program. The Office of Graduate Admissions no longer accepts paper applications to graduate programs.

Send all required documents noted on your online SF Gateway Portal “To Do List” to the Division of Graduate Studies:

Graduate Admissions
San Francisco State University
1600 Holloway Ave., ADM 250
San Francisco, CA 94132

Part Two:
The Department requires the following additional information:

• A Departmental application (recdept.sfsu.edu/graduate/applying (http://recdept.sfsu.edu/graduate/applying))
• A statement of purpose
• GRE score of 4.0 or above on the Analytical Writing portion of the exam
• Three letters of recommendation (at least one from an academic and one from a professional)

To maintain enrollment in the program, a student must:

• Develop an approved graduation plan signed by the student’s RPT advisor and make substantial progress toward meeting plan requirements, including completion of at least two core classes in the first fall semester.
• Maintain a B– or better in all classes and an overall grade point average of 3.0
• Maintain continuous enrollment in at least one program course per semester

Program Curriculum

Courses in the core are taught using an online hybrid format by the RPT Department and partnering recreation departments at CSU Chico (RECPR) and Sacramento State (RPTA). All of the students in the core courses participate in a mandatory in-person seminar on one of the participating campuses at least once near the beginning of that semester. There may be other in-person meetings with faculty or small groups of students as necessary; however, most hybrid classes are online. Students choose nine units (three classes) of electives with advisor consent. Six units may
be upper division undergraduate courses, and at least six units must be from SF State. Students will complete one of two culminating experience options; a thesis or applied research project.

Recreation, Parks, and Tourism (M.S.) — 30 units

Foundation Core (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 200 - Sacramento</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>RECR 264 - Chico</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>RPT 720</td>
<td>Developing Collaborative Leaders in Leisure Services</td>
<td>3</td>
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</tbody>
</table>

Professional Core (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RECR 611 - Chico</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>RPT 810</td>
<td>Research Methods in Recreation and Leisure Studies</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 202 - Sacramento</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Area of Specialization (9 units)

Select courses with advisor approval. (maximum of six units of upper division courses; maximum of three non-SF State units).

Culminating Experience Options (3 units)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT 895</td>
<td>Applied Research Project (and Oral Defense of Professional Paper)</td>
<td>3</td>
</tr>
<tr>
<td>RPT 898</td>
<td>Master's Thesis (and Oral Defense of Thesis)</td>
<td>3</td>
</tr>
</tbody>
</table>
SEXUALITY STUDIES

College of Health and Social Sciences
Interim Dean: Alvin Alvarez

Department of Sociology
Chair: Andreana Clay

Sexuality Studies Program
HSS 370
Phone: (415) 405–3570
Fax: (415) 338–2653
Website: sxss.fssu.edu (http://sxss.fssu.edu)

Program Scope
Sexuality Studies provides students with knowledge about the processes and variations in sexual functions and reproduction, intimate relationships, sexual and gender role development and behavior, and the social, cultural, historical and moral contexts of sex and love. This interdisciplinary field relies primarily on faculty from the Colleges of Health and Social Sciences, Liberal & Creative Arts, and Science and Engineering, who serve as advisors to students wishing information or assistance in making curricular choices. Students can use the minor in human sexuality studies to complement their majors. The program provides an opportunity to gain basic knowledge, develop an awareness of attitudes, and to acquire skills for counseling, teaching, and conducting research.

The minor program in lesbian, gay, bisexual, and transgender studies intends to delineate and analyze meanings that have been associated with homosexuality in various artistic, biological, cultural, educational, ethical, historical, and literary contexts, and to examine the related issues of mixed-gender and cross-gender roles and practices. The minor is broadly interdisciplinary. It draws from courses in anthropology, biology, cinema, counseling, English, history, human sexuality studies, psychology, social sciences, communication studies, and women and gender studies.

Professors
Herdt, Hoff, LeBlanc, McCaughan, Sueyoshi

Associate Professors
Carrington, Clay, Fields, Hosfield, Martinez, Melendez, Sears

Assistant Professor
Bost

Associated Faculty
Abdulhadi, Alamilla Boyd, Almague, Belkin, Cohler, Elia, DeVries, Johnson, Jolivette, Martel, Mamo, Mann, Moffatt, Moore, Rueda Esquibel, Savci, Tate, Van Damm, Yep

Lecturers
Chen, O'Neal, Reck, Vallin

Minors
• Minor in Human Sexuality Studies (p. 576)

• Minor in Lesbian, Gay, Bisexual, and Transgender Studies (p. 577)

Masters
• Master of Arts in Human Sexuality Studies (p. 578)

Minor in Human Sexuality Studies

Undergraduate Advisors: C. Carrington, R. Melendez

The Minor in Human Sexuality Studies consists of 18–20 units of undergraduate study. With proper advising, it is possible to use these courses to fulfill some undergraduate major, minor, and General Education requirements. Written declaration of the pursuit of the minor is not necessary prior to enrollment in any of its required or elective courses.

Human Sexuality Studies,
Minor – Minimum 18–20 units

Introductory Courses (3 units)

SXS/SOC 110  Sexuality in Society 3
SXS 300  Introduction to Human Sexuality 3

Core Courses

Students are required to complete requirements in each of the four areas listed below.

Biological and Health Aspects of Human Sexuality (3 units)
Select one of the following:

BIOL 322  Human Sexuality: Integrative Science 3
BIOL 327  AIDS: Biology of the Modern Epidemic 3
BIOL 330  Human Sexuality 3
ED 303  Health Disparities and Sexual and Gender Minority Communities: LGBTQI Health 3
SXS 601  Sexuality, Ethnicity, and Health 3

Social Scientific Aspect of Human Sexuality (3–4 units)
Select one of the following:

PSY/SXS 320  Sex and Relationships 3
PSY/SXS 436  The Development of Femaleness and Maleness 4
PSY/SXS 456  Psychology of Human Sexual Behavior 3
SXS 400/PSY 450/SOC 400  Variations in Human Sexuality 3
SXS 421  Homophobia and Coming Out 3
SXS 455  Sex, Power and Politics 3
SXS 678  Disability and Sexuality 3

Cultural, Ethnic, Racial and Sexual Diversity & Human Sexuality (3–4 units)
Select one of the following:

AA S 584  Asian American Sexualities 3
AIS/SXS/WGS 440  Native Sexualities and Queer Discourse 3
ANTH 415/SXS 438  Culture and Sex in East Asia 3
ANTH 569/ SXS 567  Cross-Cultural Aspects of Sex and Gender  3  
LTNS/WGS 505  Gender, Sexuality, and Latino Communities  3  
RRS 375  Queer Arabs in the U.S.  3  
RRS 380  Coloring Queer: Imagining Communities  3  
SXS 400/ PSY 450/ SOC 400  Variations in Human Sexuality  3  
SXS 458  Introduction to Transgender Studies  3  
SXS 667/ SOC 467  Lesbian, Gay, Bisexual, Transgender, and Queer Cultures and Society  4  
WGS 552  Transgender Identities and Communities  3  

**Arts & Humanistic Aspects of Human Sexuality (3 units)**  
Select one of the following:  
ART 403/ SXS 405  Queer Art History  3  
CINE/SXS 332  Understanding the Representation and Narration of Sexuality in Cinema  3  
CINE 541  Race, Sex, and Identity Online  3  
CLAS/SXS 530  Gender and Sexuality in Ancient Greece and Rome  3  
ENG/SXS 633  Gay Love in Literature  3  
HIST 313  Comparative History of Love and Sexuality  3  
SXS 314  Gay, Lesbian, and Bisexual History  3  
HUM 390  Images of Eroticism  3  
PHIL/SXS 369  Philosophical Issues in Sexuality  3  
PHIL 445/ SXS 469  Sex and Morality  3  
PHIL 455/ SXS 569  Sex and the Law  3  
WGS/SXS 551  Queer Literatures and Media  3  
WGS 611  Theories of Female Sexuality  3  

**Colloquium (3 units)**  
Students cannot enroll in the colloquium course until completing all other minor requirements  
SXS 680  Colloquium in Human Sexuality  3  

**Minor in Lesbian, Gay, Bisexual, and Transgender Studies**  
The Minor in Lesbian, Gay, Bisexual, and Transgender Studies consists of a minimum of 18 units of undergraduate study. It is possible to use these courses to meet requirements in some undergraduate majors, in other minors, and in the General Education program.

**Lesbian, Gay, Bisexual, and Transgender Studies, Minor — 18–19 units**  

**Introductory Courses (3–4 units)**  
Select one of the following:  
SXS/SOC 110  Sexuality in Society  3  
SXS 301  Perspectives in Gay, Lesbian, Bisexual, and Transgender Studies  3  

**Core Area Elective Courses (12 units)**  

**Biological and Health Aspects of LGBT Experience**  
Select one of the following:  
BIOL 322  Human Sexuality: Integrative Science  3  
BIOL 327  AIDS: Biology of the Modern Epidemic  3  
BIOL 330  Human Sexuality  3  
H ED 303  Health Disparities and Sexual and Gender Minority Communities: LGBTIQ Health  3  
SXS 601  Sexuality, Ethnicity, and Health  3  

**Social Scientific Aspect of LGBT Experience**  
Select one of the following:  
SXS 314  Gay, Lesbian, and Bisexual History  3  
SXS 400/ PSY 450/ SOC 400  Variations in Human Sexuality  3  
SXS 421  Homophobia and Coming Out  3  

**Cultural, Ethnic, Racial and Sexual Diversity and LGBT Experience**  
Select one of the following:  
AIS/SXS/WGS 440  Native Sexualities and Queer Discourse  3  
ANTH 569/ SXS 567  Cross-Cultural Aspects of Sex and Gender  3  
LTNS/WGS 505  Gender, Sexuality, and Latino Communities  3  
RRS 375  Queer Arabs in the U.S.  3  
RRS/SXS 380  Coloring Queer: Imagining Communities  3  
RRS 460/ COUN 450/ SXS 460  AIDS and People of Color in the U.S.  3  
SXS 458  Introduction to Transgender Studies  3  
WGS 552  Transgender Identities and Communities  3  

**Arts & Humanistic Aspects of LGBT Experience**  
Select one of the following:  
ART 403/ SXS 405  Queer Art History  3  
CLAS/SXS 530  Gender and Sexuality in Ancient Greece and Rome  3  
ENG/SXS 633  Gay Love in Literature  3  
PHIL 445/ SXS 469  Sex and Morality  3  
SXS 314  Gay, Lesbian, and Bisexual History  3  
SXS 635  Queer Masterpieces  3  
WGS/SXS 551  Queer Literatures and Media  3  
WGS 612  Queer Theory  3  

**Colloquium (3 units)**  
Students cannot enroll in the colloquium course until completing all other minor requirements  
SXS 680  Colloquium in Human Sexuality  3
Master of Arts in Human Sexuality Studies

Graduate Advisor: J. Fields

Career Options for M.A. Graduates

The career outlook for graduates with specialized knowledge of human sexuality has never been better in our society, due to the changing positive attitudes regarding the role of sexuality in the universities and colleges, high schools, local and national government, research and training, clinical and mental health training, and private sector positions that call for expertise of human reproduction, sexuality, sexual identity and diversity, sexual orientation, gender, and human resources.

The Master of Arts in Human Sexuality Studies program is designed to meet the following career needs:

- Preparation for Ph.D. studies and professional schools in the field of psychology, sociology, anthropology, history, medicine, social work, or communication.
- Work in public health settings, such as those related to AIDS education, AIDS/HIV treatment and care centers; e.g., the Center for AIDS Prevention Studies at the University of California at San Francisco, and welfare centers throughout the Bay Area.
- Reproductive health education, research, training, and prevention facilities and organizations; i.e., Planned Parenthood.
- Sexuality education for students at the regional community colleges and at the local school boards that offer or plan to offer courses and curricula on sexuality, including counseling in the secondary schools.
- Preparation for work in policy or research public policy institutes located at Stanford University and the University of California at Berkeley.
- Service provision and training for service providers in hospitals, clinics, nursing homes, and others that require sensitivity training related to sexuality across the life course and sexual orientation issues.
- Human resource departments of businesses and corporations, responsible for the provision of sexuality and sexual orientation anti-discrimination and partner benefits areas for employees.
- Research, policy, and education providers who are needed to fill gay and lesbian agencies and community centers in the Bay Area and elsewhere.

Admission to Program

A prospective student must fulfill the general University requirements as stated in the section on Graduate and Post-baccalaureate Admissions (p. 115) of this Bulletin. To be considered for classified (unconditional) admission to the graduate program in human sexuality studies, an applicant must have completed an undergraduate major in an appropriate field under advisement with a minimum grade point average of 3.0. It is expected that applicants will primarily come from behavioral and social sciences (psychology, anthropology, sociology, history), health education, social services professions (social work), business (human resources, management, marketing), humanities (speech and communications, women studies). Students whose undergraduate major did not include human sexuality studies courses should consult the graduate advisor about making up course deficiencies in human sexuality studies.

Applicants must furnish the department the following materials, no later than March 1st for the following fall semester (no spring admissions): a program application with a statement of purpose outlining experience, career objectives, and rationale for studying human sexuality studies at the graduate level; two letters of recommendation; unofficial transcripts of all college coursework, indicating a GPA of 3.0 or higher; Graduate Record Exam (GRE) with a minimum score of 4.0 for the analytical writing portion of the GRE; TOEFL scores; and an SF State application. Applying to the University is a separate process from applying to the department. For detailed information regarding our admissions process please see our website at sx.sfsu.edu (http://sx.sfsu.edu)

The faculty graduate committee evaluates applications for admission, assesses the overall program, and reviews student progress. If a student is not making reasonable progress towards the degree, the committee may recommend termination of candidacy.

Written English Proficiency Requirement

Level One
GRE writing score of 4.0 and above or satisfactorily meeting the writing requirements in SXS 800.

Level Two
Satisfactory completion of the culminating experience requirements:

SXS 894 Creative Work Project 3
SXS 895 Research Project in Human Sexuality Studies 3
SXS 898 Master’s Thesis 3

Advancement to Candidacy

Besides meeting all general requirements for Advancement to Candidacy (ACT), applicants must maintain a 3.0 grade point average in all human sexuality courses taken for the degree, and may not list any course in which the grade received is below B – on the ATC form.

Human Sexuality Studies (M.A.) – Minimum 30 units

Core Requirements (12 units)

SXS/ANTH 701 or SXS/HIST 702 Sexual Cultures, Sexual Identities 3
Sexuality in Historical Perspective

SXS 800 Sociocultural Foundations in Human Sexuality 3
SXS 801 Biological and Psychological Foundations of Human Sexuality 3
SXS 890 Professional Development 3

Research Methodology (6 units)

SXS 881 Research Methods in Human Sexuality Studies 3
SXS 882 Research Design in Human Sexuality Studies 3
SXS 883 Applied Quantitative Methods in Sexuality Studies
SXS 884 Advanced Methods in Sexuality Studies

Electives (9 units)

Units selected from upper division/graduate courses upon advisement

http://hx.sfsu.edu
**Culminating Experience (3 units)**

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SXS 894</td>
<td>Creative Work Project</td>
<td>3</td>
</tr>
<tr>
<td>or SXS 895</td>
<td>Research Project in Human Sexuality Studies</td>
<td></td>
</tr>
<tr>
<td>or SXS 898</td>
<td>Master's Thesis</td>
<td></td>
</tr>
</tbody>
</table>
The Master of Social Work (MSW) curriculum prepares its graduates for advanced practice through mastery of the core competencies supplemented by knowledge and behaviors specific to advanced social work practice and advanced social work competencies. Only a full-time program is offered. The program requires four academic semesters or two years of full-time study to complete.

Competency-based social work education is an outcome performance approach to the curriculum and includes measurable practice behaviors for each competency that are comprised of knowledge, values, and skills. Our program learning outcomes are to teach students to demonstrate the integration and application of social work competencies in practice with individuals, families, groups, organizations and communities. The nine core competencies for the BASW and MSW programs, developed by the accrediting body the Council on Social Work Education (EPAS, 2015), are as follows:

1. Demonstrate ethical and professional behavior.
2. Engage diversity and difference in practice.
3. Advance human rights and social, economic, and environmental justice.
4. Engage in practice-informed research and research-informed practice.
5. Engage in policy practice.
6. Engage with individuals, families, groups, organizations, and communities.
7. Assess with individuals, families, groups, organizations, and communities.
8. Intervene with individuals, families, groups, organizations, and communities.
9. Evaluate with individuals, families, groups, organizations, and communities.

**Career Outlook**

Students who complete the baccalaureate social work major are prepared for graduate study in accredited schools of social work and social welfare; professional or graduate training in related fields such as law, public administration, public health, and psychology; and for early-level professional positions in both public and private social welfare and social service agencies.

Examples of these agencies include local departments of social services; hospitals; youth care facilities; community-based treatment agencies; community mental health facilities; child care programs; services for the aged; drug and alcohol treatment programs; family service agencies; and community, neighborhood, and advocacy organizations. The major provides students with an opportunity to apply social science theories and social work knowledge and skills in a comprehensive fieldwork placement during their senior year.

Graduates of the Master of Social Work program are prepared for advanced level professional positions in both public and private social service agencies and community organizations. Subject to the laws of the State of California, MSW graduates are eligible to take the examination to become a Licensed Clinical Social Worker (LCSW) two years after graduation. They are also eligible to take social work licensing examinations in other states. In addition, to prepare for advanced level professional practice, MSW graduates go on to doctoral programs in social work/social welfare and in related fields such as public policy, public health, gerontology, psychology, education, and law. According to the Bureau of Labor Statistics (2015), employment opportunities for...
the profession of social work is expected to grow by 12 percent between 2014 and 2024.

**Professors**
Jones, Shapiro, Takahashi

**Associate Professors**
Hermoso, Lee, Lenz-Rashid, Levy, Redman

**Lecturers**
Bardacke, Feliciana, Fischer, Melara, Scudder

**Majors**
- Bachelor of Arts in Social Work (p. 581)k (BASW)

**Masters**
- Master of Social Work (p. 587)

**Bachelor of Arts in Social Work**

**Eligibility Requirements**

Admission to the Bachelor of Arts in Social Work major is limited to students at the upper division level (60 units or more). Applicants must be either a current SF State student or eligible for admission to undergraduate studies at San Francisco State University.

The BA in Social Work is a two-year (four semesters) cohort program designed for full-time study. Students are admitted during the fall semester only. As a cohort group, students typically begin and end the program at the same time. Students are expected to complete their B.A.S.W. degree in two years.

Prior to entering the program, students are expected to have completed all General University requirements pertaining to the admission of undergraduate students. Students must have completed all SF State Lower Division General Education requirements (or equivalent) and have junior standing (60 units or more) at San Francisco State University. Students must have an all-college total GPA of 2.0 or higher at the time of application. Students must also complete and pass the four required prerequisites with a grade of C– or higher prior to admission into the BASW Program:

1. Introductory-level course in Human Biology (BIOL 100 or equivalent; lab not required for Social Work program)
2. Macro Economics (ECON 102 or ECON 305 or equivalent)
3. Introductory Psychology (PSY 200 or equivalent), and
4. Introductory Sociology (SOC 105 or equivalent)

The School of Social Work strongly recommends that students complete ENG 214 (Second Year written composition-English) or equivalent prior to entering the BASW program.

All BASW majors must complete 120 credits to graduate and at least 44 units of major courses.

**Application Procedure**

Students already enrolled at SF State who meet the Eligibility Requirements described above can visit the School of Social Work website at http://socwork.sfsu.edu/admissions/basw to access the application forms/documents.

Prospective transfer students must submit two separate applications. First, they must be admitted into San Francisco State University Undergraduate Studies and second, applicants must complete the supplemental School of Social Work B.A.S.W. application. Again, the application process is as follows:

1. First, they must complete the SF State Application for Admission online using the CSU Mentor portal www.csumentor.edu (http://www.csumentor.edu) and must be accepted by the university.
2. Second, they must complete the School of Social Work application. Access to the School of Social Work application is made available by the Undergraduate Admissions Office after the applicant completes and submits the University application.

To determine if the School of Social Work prerequisites have been met, the articulation agreement between SF State and any California’s public college or university can be accessed at www.assist.org (http://www.assist.org), an online student-transfer information system that shows how course credits earned at one public California College or university can be applied when transferred to another. ASSIST is the official repository of articulation for California’s public colleges and universities and provides the most accurate and up-to-date information about student transfer in California’ (Assist.org (http://www.assist.org) website).

The School’s admissions evaluation is based on prior academic performance, including completion of the four prerequisite courses, human biology, introductory psychology, introductory sociology, and macroeconomics. Other considered factors include the potential for professional social work practice as demonstrated by previous employment/volunteer experiences; and knowledge of and experiences with historically oppressed, under-served, and under-represented individuals, families, groups, and communities. In determining admissions, reviewers also consider the congruence between the applicant’s educational objectives and the School’s mission and objectives.

Students are required to maintain a minimum cumulative GPA of 2.5. Students not maintaining this average may be dismissed from the Social Work program.

Freshmen and sophomore students planning to major in Social Work should consult with an advisor in the College of Health and Social Sciences Student Resource Center before enrolling in courses that fulfill General Education requirements.

**Field Internships:** B.A.S.W. students are required to complete 480 hours in an approved field internship site during their senior year. The field education director works closely with students to find field placements. Before entering field internships, students must have completed 24 units of their junior year courses with a grade of C or better.

**Written English Proficiency Requirement**

The School of Social Work is committed to enhancing all students’ ability to communicate in an effective and professional manner, both orally and in writing. Further, the School promotes efforts to ensure that all forms of communication are culturally sensitive and appropriate.

To prepare practitioners for the challenges and responsibilities of advocacy within professional settings, the School of Social Work pursues
a rigorous writing proficiency standard in the B.A.S.W. and M.S.W. programs. Formal writing assignments are integrated into the structure of classes with the expectation that students progressively expand and refine their mastery of organizing ideas and expressing purposeful thinking. Written communication is a core competency in both the B.A.S.W. and M.S.W. degree programs.

Social Work majors who successfully complete S W 301GW in Spring 2010 or thereafter will have satisfied the University Graduation Writing Assessment Requirement (GWAR). S W 301GW is offered the second semester of the junior year. Per University requirement, second year written composition, ENG 214, is a prerequisite to the upper division Graduation Writing Assessment Requirement (GWAR) course in the major, therefore the School of Social Work strongly recommends that students complete ENG 214 or equivalent prior to entering the B.A.S.W. program.

**Social Work (B.A.) – 44 units**

**BASW Course Requirements**

Prerequisites for entering the Social Work program:

**Introductory Psychology**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PSY 200</td>
<td>General Psychology</td>
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**Introductory Sociology**

<table>
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<tr>
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<tbody>
<tr>
<td>SOC 105</td>
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**Human Biology (lab not required for SW program)**

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<td>BIOL 100</td>
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**Macroeconomics**

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<th>Units</th>
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<tbody>
<tr>
<td>ECON 102</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
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Course   Title                                Units  
S W 300   U.S. Social Welfare: Past, Present, and Future | 3     
S W 302   Introduction to Social Service Organizations | 3     
S W 352   Gender, Sexism, and Social Welfare | 3     
S W 410   Human Development and the Social Services | 3     
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**Senior**

**Fall Semester**

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<td>Services to Children, Youth, and Their Families</td>
<td>3</td>
</tr>
<tr>
<td>S W 401</td>
<td>Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>S W 456</td>
<td>Urban Community</td>
<td>3</td>
</tr>
<tr>
<td>S W 502</td>
<td>Seminar on Field Experience I</td>
<td>2</td>
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<tr>
<td>S W 503</td>
<td>Field Experience in the Social Services I</td>
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</table>

**Units**

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>S W 450</td>
<td>Introduction to Research in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>S W 504</td>
<td>Seminar on Field Experience II</td>
<td>2</td>
</tr>
<tr>
<td>S W 505</td>
<td>Field Experience in the Social Services II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Units**

**Total Units**

44

**Complementary Studies**

Students completing a Bachelor of Arts in Social Work (B.A.S.W.) degree must complete 12 units in Complementary Studies in courses bearing a prefix other than S W, and not cross-listed with S W. The courses required of all students who are admitted to the B.A.S.W. program will also satisfy the CS requirement: Introductory Sociology (SOC 105 or equivalent); Introductory Psychology (PSY 200 or equivalent); Macroeconomics (ECON 102 or equivalent) or Economics Analysis for Non-Majors (ECON 305 or equivalent); and an introductory-level course in Human Biology (BIOL 100 or equivalent, Lab not required).

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
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<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
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<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
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<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
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<td>3</td>
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<td>Arts or Humanities</td>
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<tr>
<td>Humanities: Literature</td>
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**Area Designation**

<table>
<thead>
<tr>
<th>Area Designation</th>
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<tbody>
<tr>
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<td>B4</td>
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<td>C1</td>
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<tr>
<td>C1 or C2</td>
<td></td>
</tr>
<tr>
<td>C3</td>
<td></td>
</tr>
</tbody>
</table>
Social Sciences  LD  3  D1
Social Sciences:  LD  3  D2
US History
Social Sciences:  LD  3  D3
US & CA
Goverment
Lifelong Learning
and Self-
Development
(LLD)
LD or UD  3  E
Physical and/or
Life Science  UD  3  UD-B
Arts and/or
Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies
Courses certified as meeting the SF State Studies
requirements may be upper or lower division in General
Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental
Sustainability (ES)  LD or UD  3
Global
Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or
   electives for this major as possible.
2. The following courses are not required for admission, but are required
   for graduation. Students are strongly encouraged to complete these
   units before transfer; doing so will provide more flexibility in course
   selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and
(2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes
options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements
  for this major, including 2nd-semester composition;
- Which courses at a CCC satisfy CSU GE, US History, and US & CA
  Government.

Remedial courses are not transferable and do not apply to the minimum
60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the
minimum 60 units required for upper division transfer (for example, if
course was not passed on the first attempt, or was taken to earn a better
grade).

Before leaving the last California community college of attendance,
obtain a summary of completion of lower division General Education
units (IGETC or CSU GE Breadth). This is often referred to as a GE
certification worksheet. SF State does not require delivery of this
certification to Admissions, but students should retain this document for
verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or
College-Level Examination Program courses: AP/IB/CLEP credit
is not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP
examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and
mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to
students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements.
Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State’s lower division GE pattern are
available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking
(GE A3) may not be widely offered outside the CCC and CSU systems.
Students should attempt to identify and take an appropriate course no
later than the term of application to the CSU. To review more information
about the A3 requirement, please visit http://bulletin.sfsu.edu/
undergraduate-education/general-education/lower-division/AAEL.

Identify and complete a 2nd-semester written English composition
course before transfer. This is usually the next course after the typical
“freshman comp” course, with a focus on writing, reading and critical
analytical skills for academic purposes, and developing skills in
composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets
both US and CA/local government requirements may be an appropriate
option, particularly if transferring from outside of California.

All students must meet the transfer eligibility
requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more
  quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Social Work Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 44

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>ECON 102 or ECON 305</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 305</td>
<td>or Economic Analysis for Non-Majors</td>
<td></td>
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<tr>
<td>PSY 200</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td></td>
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<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
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<tr>
<td>SOC 105</td>
<td>Sociological Perspectives</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
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<td></td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>S W 300</td>
<td>U.S. Social Welfare: Past, Present, and Future</td>
<td>3</td>
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<tr>
<td>S W 302</td>
<td>Introduction to Social Service Organizations</td>
<td>3</td>
</tr>
<tr>
<td>S W 352</td>
<td>Gender, Sexism, and Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>S W 410</td>
<td>Human Development and the Social Services</td>
<td>3</td>
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<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<tr>
<td>S W 301GW</td>
<td>U.S. Social Welfare II: Problems, Policies, and Programs - GWAR</td>
<td>3</td>
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<tr>
<td>S W 400</td>
<td>Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>S W 402</td>
<td>Interviewing Skills in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>S W 470</td>
<td>Social Differences and Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

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1 GE Area A: Written English Communication (A2) requires 4 units.  
2 GE Area A: Oral Communication (A1) or Critical Thinking (A3) requires 4 units.  
3 Complementary Studies or SF State Studies or University Elective requires 3 units.  
4 GE Area B: Physical Science (B1) and Laboratory Science (B3) requires 3-4 units.  
6 GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) requires 3 units.
### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SW 350</td>
<td>Services to Children, Youth, and Their Families</td>
<td>3</td>
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<td>SW 401</td>
<td>Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 456</td>
<td>Urban Community Organizing and Citizen Action</td>
<td>3</td>
</tr>
<tr>
<td>SW 502</td>
<td>Seminar on Field Experience I</td>
<td>2</td>
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<tr>
<td>SW 503</td>
<td>Field Experience in the Social Services I</td>
<td>2</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td></td>
<td>Units</td>
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### Eighth Semester

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<th>Course</th>
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<tbody>
<tr>
<td>SW 450</td>
<td>Introduction to Research in Social Work</td>
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</tr>
<tr>
<td>SW 504</td>
<td>Seminar on Field Experience II</td>
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</tr>
<tr>
<td>SW 505</td>
<td>Field Experience in the Social Services II</td>
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<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<tr>
<td></td>
<td>Units</td>
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</table>

**Total Units: 121-122**

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**Note:** Complementary Studies

Students completing a Bachelor of Arts in Social Work (BASW) degree must complete 12 units in Complementary Studies in courses bearing a prefix other than Social Work (S W), and not cross-listed with Social Work. The courses required of all students who are admitted to the BASW program will also satisfy the CS requirement: Introductory Sociology (SOC 105 or equivalent); Introductory Psychology (PSY 200 or equivalent); Macroeconomics (ECON 102 or equivalent) or Economics Analysis for Non-Majors (ECON 305 or equivalent); and an introductory-level course in Human Biology (BIOL 100 or equivalent, Lab not required).

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Students completing a Bachelor of Arts in Social Work (BASW) degree must complete 12 units in Complementary Studies in courses bearing a prefix other than Social Work (S W), and not cross-listed with Social Work. The courses required of all students who are admitted to the BASW program will also satisfy the CS requirement: Introductory Sociology (SOC 105 or equivalent); Introductory Psychology (PSY 200 or equivalent); Macroeconomics (ECON 102 or equivalent) or Economics Analysis for Non-Majors (ECON 305 or equivalent); and an introductory-level course in Human Biology (BIOL 100 or equivalent, Lab not required).

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Master of Social Work

Admission to Program

Applicants must first meet the general university requirements pertaining to the admission of graduate students. In addition, applicants must demonstrate academic and professional commitments to Social Work and the values and philosophical foundations of the School’s mission. To be considered for admission into the M.S.W. Program, prospective students must apply and be admitted to both Graduate Studies and the School of Social Work. Admission to the M.S.W. Program is highly competitive. Application forms and materials can be accessed online via the School of Social Work website: http://socwork.sfsu.edu/admissions/msw. Applications for the Title IV–E Child Welfare Training Program are also available on the website and must be submitted in person or mailed to the Title IV–E Coordinator.

School admission decisions are based on several areas, including but not limited to, potential for professional practice as demonstrated by previous employment/volunteer experiences; value congruence to the School’s mission; knowledge, experience, and relationship of the applicant to oppressed, under–served and under–represented individuals, families, groups, organizations, and communities; and academic performance. To qualify for admission to the M.S.W. program, applicants must have attained a GPA of at least 3.0 in an acceptable earned baccalaureate degree or a minimum undergraduate GPA of 3.0 in their last 60 units. The significance of a baccalaureate degree from an accredited undergraduate program in Social Work is recognized, but SF State University School of Social Work does not have an advanced standing program. In the event that a student with a BASW degree from a CSWE accredited institution is admitted into the M.S.W. program, a thorough transcript review will take place and a determination made about if and which course(s) may be waived. In the event that a course is waived, credits must be obtained in elective courses to meet graduation requirements and the adequate number of credits.

Level One Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two different points in a student’s program.

The School of Social Work is committed to enhancing all students’ ability to communicate in an effective and professional manner, both orally and in writing. Further, the School promotes efforts to ensure that all forms of communication are culturally sensitive and appropriate.

To prepare practitioners for the challenges and responsibilities of advocacy within professional settings, the School of Social Work pursues a rigorous writing proficiency standard. Formal writing assignments are integrated into the structure of classes with the expectation that students progressively expand and refine their mastery of organizing ideas and expressing purposeful thinking. Written communication is a core competency in both the BASW and M.S.W. degree programs.

The level one written English proficiency assessment requirement is conducted during the applicant’s completion of the M.S.W. supplemental application. One of the application questions is specifically referenced as such.

Level Two Written English Proficiency

The culmination of student writing is completed when graduate students write their final culminating experience project for the M.S.W. degree. They choose either a professional practice project or a thesis. The final projects typically include, as a minimum, the following sections:

- Identification of the issues or problems that are the focus of the project or thesis;
- Description, foundation, discussion, comprehension, and analysis of the presenting problems or issues;
- Review of the literature relevant to the project subjects;
- Application and syntheses of the literature, principles, theories, and practice areas;
- Assessment;
- Evaluation;
- Implications for social work policies, programs, practices.

Advancement to Candidacy

Besides meeting all general requirements for advancement to candidacy, the school maintains the following additional requirements:

- The following are to be taken in the first year prior to other courses: 4 units of S W 740, and 2 units of S W 741. S W 740 is graded CR/NC only.
  - S W 700 History and Philosophy of Social Welfare 3
  - S W 710 Human Behavior and the Social Environment 3
  - S W 720 Research Methods in Social Work 3
  - S W 730 Social Work Practice Methods 3
  - S W 770 Ethnic and Cultural Concept and Principles I 3
  - S W 780 Global Poverty 3

- Maintenance of a 3.0 grade point average in graduate study.

Field Internship: The field education director meets and works with all students to help them locate an appropriate and rigorous field internship. M.S.W. students complete a total of 1200 hours of field internship (490 hours during year one and 720 hours during year two).

Mental Health Stipend Program

Principal Investigator: Jerry Shapiro

The California Social Work Education Center (CalSWEC) has granted stipends to the School of Social Work to support second–year graduate students committed to working in public mental health. These stipends are the result of the Mental Health Services Act (funded by Proposition 63) and are part of a workforce development initiative to train qualified social workers who can provide public mental health services. For the one–year academic year stipend of $18,500, the student agrees to “payback” by working in public mental health for one calendar year. This can include positions in public programs or contract agencies funded by Behavioral Health grants.

Students must meet all core M.S.W. Program requirements, and participate in various mental health workshops and trainings during their year in the program. Funding for the stipend program is scheduled to end in 2016. Current information can be obtained from the Principal Investigator, Dr. Jerry Shapiro at jshap@sfsu.edu.
Title IV-E Child Welfare Training Stipend Program
For information about the Title IV-E Stipend Program, please visit our School of Social Work website at http://socwork.sfsu.edu/content/title-iv-e--child--welfare--training--program-

Master of Social Work — Minimum 60 Units

Core Requirements (Minimum 33 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S W 700</td>
<td>History and Philosophy of Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>S W 701</td>
<td>Social Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>S W 710</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>S W 720</td>
<td>Research Methods in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>S W 721</td>
<td>Seminar: Evaluative Research in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>or S W 820</td>
<td>Seminar: Advanced Research Methodology in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>S W 730</td>
<td>Social Work Practice Methods</td>
<td>3</td>
</tr>
<tr>
<td>S W 740</td>
<td>Fieldwork Instruction</td>
<td>2</td>
</tr>
<tr>
<td>S W 741</td>
<td>Graduate Fieldwork Seminar</td>
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</tr>
<tr>
<td>S W 741</td>
<td>Graduate Fieldwork Seminar</td>
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<tr>
<td>S W 770</td>
<td>Ethnic and Cultural Concept and Principles I</td>
<td>3</td>
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<td>S W 780</td>
<td>Global Poverty</td>
<td>3</td>
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<tr>
<td>S W 895</td>
<td>Research Projects in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>or S W 898</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

Program Emphasis (27 Units)
(One area selected from the emphases listed below)

Each student is admitted into the Individuals, Families, and Groups (IFG) emphasis, and may elect to simultaneously apply to the Title IV-E Child Welfare Training Program.

Individuals, Families, and Groups Program (IFG)
Social work practice with individuals, families, and groups is grounded in a biopsychosocial approach to direct service. The social worker functions as a multi-role practitioner including the following: case worker, case manager, leader, facilitator, broker, advocate, counselor, educator, or resource specialist. The practice methods emphasize the importance of promoting the strengths of individuals, rather than focusing on deficits or pathology. The goal of IFG practice is to ameliorate stressors within a life course context of human development and functioning. The practitioner’s attention is directed toward enhancing the coping abilities of individuals, families, and groups in dealing with aspects of their interpersonal environment through empowering processes. Recognition of issues of diversity is fundamental to culturally competent IFG practice.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S W 810</td>
<td>Health, Illness, and Disordered Behavior</td>
<td>3</td>
</tr>
<tr>
<td>S W 740</td>
<td>Fieldwork Instruction</td>
<td>3</td>
</tr>
<tr>
<td>S W 740</td>
<td>Fieldwork Instruction</td>
<td>3</td>
</tr>
<tr>
<td>S W 741</td>
<td>Graduate Fieldwork Seminar</td>
<td>1</td>
</tr>
<tr>
<td>S W 741</td>
<td>Graduate Fieldwork Seminar</td>
<td>1</td>
</tr>
<tr>
<td>S W 830</td>
<td>Seminar: Social Casework</td>
<td>3</td>
</tr>
<tr>
<td>S W 832</td>
<td>Seminar: Social Group Work</td>
<td>3</td>
</tr>
<tr>
<td>S W 831</td>
<td>Seminar: Advanced Social Casework</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 7 units of electives on advisement

Title IV-E Child Welfare Training Program
Project Coordinator: Gabriela Fischer
Principal Investigator: Susanna Jones
The School of Social Work is part of a consortium of graduate social work programs in California to administer the Title IV-E Child Welfare Training Program. This program, administered by the California Social Work Education Center (CalSWEC), was created to prepare MSW students for careers in public child welfare service. The full-time program provides a number of student stipends ($18,500 per year) for two years of graduate school. In return for receiving a stipend, students must work in public child welfare for at least two years after they graduate.

The Title IV-E Program is driven by child welfare competencies that were developed by universities and county welfare directors. These competencies are integrated throughout the curriculum and are further enhanced by special workshops on current topics related to the field. Title IV-E students are expected to complete all core components of the MSW Program and are required to complete the first year field placement in a county child welfare department or non-profit program serving Title IV-E eligible children and families. The second year placement must be in a county child welfare department. In addition, Title IV-E students are required to complete two child welfare focused courses: S W 843, in the spring semester of the first year, and S W 701 (Child Welfare-specific section), the fall semester of the second year of the MSW program. Students are also required to participate in child welfare trainings and workshops as directed by the Title IV-E Coordinator.

Students who apply to the MSW program are also provided the opportunity apply for the Title IV-E Child Welfare Training Program simultaneously. Applicants will go through a selection process that includes an in-person interview. Priority is given to applicants who are current employees of county child welfare agencies and applicants who reflect the diversity of clients served by California’s public child welfare agencies. Students who receive the Title IV-E stipend award must attest that they have never been convicted of a felony or misdemeanor crime or any crime involving harm to children that would disqualify them from service in a county public child welfare services agency. All students must submit to Live Scan and criminal background checks via the Child Welfare Services/Case Management System (CWS/CMS) for second-year placement. Continuation of this program is subject to funding availability.

Pupil Personnel Services Credential: School Social Work Designation
PPSC Coordinator Christina Feliciano
The School offers a Pupil Personnel Services Credential (PPSC) program to graduate social work students who are simultaneously pursuing their MSW degree. This additional program is available only if resources permit. If offered, students in the PPSC Program are required to enroll in all courses in the Individual, Families, and Groups (IFG) emphasis and do a field placement in a public school (K–12), supervised by an individual with a PPSC credential. The PPSC field placement and specialized course work are designed to be completed in the second year of MSW preparation and are taken in the following order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>S W 740</td>
<td>Fieldwork Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>
### S W 741
Graduate Fieldwork Seminar

1

### S W 865
Social Work Practice in School Settings

3

---

<table>
<thead>
<tr>
<th>Second Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S W 740</td>
<td>Fieldwork Instruction</td>
</tr>
<tr>
<td>S W 741</td>
<td>Graduate Fieldwork Seminar</td>
</tr>
<tr>
<td>S W 760</td>
<td>Social Work and the Law</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

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**Total Units 14**

---

**Post-Masters PPSC Program**

The School of Social Work offers a Post Masters PPSC Program for persons who possess an MSW from an accredited social work institution. Each student’s portfolio of prior classes and experiences are assessed to determine what must be completed to meet the requirements for a Post Masters PPSC.

This program is offered during the summer through the College of Extended Learning, and students are able to complete all requirements in one summer. For details, one may contact the Post Masters PPSC Coordinator, Christina Feliciana, at (415) 405–0942 or cfeli@sfsu.edu.

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**Mental Health Stipend Program**

Principal Investigator: Jerry Shapiro

The California Social Work Education Center (CalSWEC) has granted stipends to the School of Social Work to support second-year graduate students committed to working in public mental health. These stipends are the result of the Mental Health Services Act (funded by Proposition 63) and are part of a workforce development initiative to train qualified social workers who can provide public mental health services. For the one-year academic year stipend of $18,500, the student agrees to “payback” by working in public mental health for one calendar year. This can include positions in public programs or contract agencies funded by Behavioral Health grants.

Students must meet all core MSW Program requirements, and participate in various mental health workshops and trainings during their year in the program. Funding for the stipend program is scheduled to end in 2016. Current information can be obtained from the program’s coordinator, Sheila Hembury, at (415) 338–7530 or shehe@sfsu.edu.

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1 S W 741 is taken concurrently with S W 740 and is required each semester that the student is in the field.

2 Post-Masters PPSC students do not take S W 740 and S W 741 concurrently.
Sociology

College of Health and Social Sciences
Dean: Alvin Alvarez

Department of Sociology
Chair: Andreana Clay
HSS 370
Phone (415) 338-1466
Fax: (415) 338-2653
Website: sociology.sfsu.edu (http://sociology.sfsu.edu)

Program Scope
Sociology examines the social aspects and dimensions of most everything human beings do in the realm of politics, economics, culture, technology, relationships, and identity. Studying sociology provides students critical and reflexive perspectives with which to understand the world. It pushes students to develop the analytical, research, and compositional skills necessary to investigate, understand, analyze, explain, and improve the world around them. Courses cover a broad range of topics including: the study of individuals as social actors; the analysis of social processes such as social interaction and deviance and conformity; the study of institutions such as law, family, media, popular culture, medicine, education, and religion; and the investigation of the social organization of entire societies in the global context. The department offers a variety of courses of interest to non-majors as well as to majors.

Career Outlook
Upon completion of a B.A. in Sociology, students can continue their education with graduate work in either sociology or in some related field such as social work, public administration, or law. For students who choose to pursue employment with their bachelor’s degree, sociology provides an excellent liberal arts foundation for a range of career paths that utilize their sociological insights as well as the conceptual and methodological skills they have acquired. Training in sociology can open a variety of doors in human services and in business. Those who enter human services may work with youths at risk, the elderly, or people experiencing problems related to poverty, substance abuse, or the justice system. Some find employment in agencies that work for social change including various organizations concerned with human rights issues or the environment. Sociology majors who enter the business world work in sales, marketing, customer relations, or human resources.

In addition, the sociology major has a competitive advantage in today's information society. The solid base received in research design, data analysis, statistics, and sociological concepts enables them to compete for support positions in research, social planning, policy analysis, program evaluation, and other social science endeavors.

Professors
Barbosa, Dumont, Fields, LeBlanc, McCaughan

Associate Professors
Bettinger, Carrington, Clay, Hossfeld, Martinez, Sears

Major
• Bachelor of Arts in Sociology (p. 590)

Minor
• Minor in Sociology
Due to impact of the Sociology major, the Department is not accepting new Sociology minors until further notice. Students who have already declared the minor may continue their planned course of study.

Bachelor of Arts in Sociology
Students interested in applying to the Sociology major are advised to complete ENG 214 (or equivalent) and any two sociology courses, earning grades of C or higher. Transfer students and first-time freshmen should follow SF State's online application process. Transfer students should indicate Sociology as their first choice of major and first-time freshmen should indicate “undeclared with an interest in sociology.” Students who are already enrolled at SF State should bring a completed Change of Major form and a copy of their academic advising audits to the Sociology Department office in HSS 370. No exceptions will be made for students wanting to submit a change of major form after the November 30 deadline. See departmental website for supplemental program application http://sociology.sfsu.edu/content/sociology-impaction.

All courses numbered 300 and above require upper-division standing and completion of G.E. Areas A and B4 (formerly Segment I) or equivalent. SOC 370, SOC 371 and SOC 392 require passing SOC 300GW. Students are allowed to take one course toward the major as credit/no credit (CR/NC). This course cannot be used as one of the Required Courses or to satisfy Areas 1 and 2. Students are also allowed to count 3–4 upper-division units outside sociology toward the major upon approval of a departmental advisor. A total of 12 lower-division units, including SOC 105, SOC 110, SOC 200, SOC 245 and those courses taken at community colleges, automatically apply toward the 23–24 units of electives required for the degree.

A total of 30 Sociology units must be upper division. University regulation requires 12 units toward the major must be completed in residence.

Please note that the department strongly encourages students to meet with an advisor early during their first semester at SF State regardless of academic rank. All students are required to have met with a sociology advisor at least once by the time they have completed SOC 300GW.

Sociology (B.A.) — 42–43 units

Required Courses (19 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 300GW</td>
<td>Sociological Analysis - GWAR (Prerequisite for all other required courses)</td>
<td>4</td>
</tr>
<tr>
<td>SOC 370</td>
<td>Classical Theories of Society (Passing SOC 370 or SOC 371 is a prerequisite for SOC 392, SOC 500 and SOC 501/SOC 502)</td>
<td>4</td>
</tr>
<tr>
<td>or SOC 371</td>
<td>Contemporary Theories of Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 392</td>
<td>Introduction to Research Methods (Passing SOC 392 is a prerequisite for SOC 393, SOC 394, SOC 500, SOC 501/SOC 502, and SOC 503/ SOC 504)</td>
<td>4</td>
</tr>
<tr>
<td>SOC 393</td>
<td>Quantitative Analysis of Social Data</td>
<td>4</td>
</tr>
<tr>
<td>or SOC 394</td>
<td>Sociological Field Methods</td>
<td>4</td>
</tr>
<tr>
<td>Capstone</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

SOC 500 Senior Seminar
SOC 501 & SOC 502  Internship; Applied Sociology and Internship Seminar: Applied Sociology
SOC 503  Research Internship Seminar and Research Internship Experience

Electives (23–24 units)
In fulfilling the elective requirements students must complete at least one course from each of the following two areas\(^1\)

**Area 1: Inequalities in the United States**

<table>
<thead>
<tr>
<th>Course</th>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRS/SOC 330</td>
<td>Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation (AERM)(SJ)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 272</td>
<td>Social Inequality: Poverty, Wealth, and Privilege</td>
<td>4</td>
</tr>
<tr>
<td>SOC 362</td>
<td>The Social Construction of Deviance and Conformity</td>
<td>4</td>
</tr>
<tr>
<td>SXS 400/PSY 450/SOC 400</td>
<td>Variations in Human Sexuality (SJ)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 455</td>
<td>Punishment and Social Control</td>
<td>3</td>
</tr>
<tr>
<td>SOC 467/SXS 667</td>
<td>Lesbian, Gay, Bisexual, Transgender, and Queer Cultures and Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 468</td>
<td>Social Aspects of Human Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>SOC 469</td>
<td>Gender and Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 490</td>
<td>Sociology of Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOC 491/AIS 490/ANTH 490</td>
<td>Ancestors or Data? Culture, Conflict, and NAGPRA</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area 2: Global Inequalities**

<table>
<thead>
<tr>
<th>Course</th>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 461</td>
<td>Ethnic Relations: International Comparisons</td>
<td>4</td>
</tr>
<tr>
<td>SOC 471</td>
<td>Societal Change and Development</td>
<td>4</td>
</tr>
<tr>
<td>SOC 477</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 480/USP 470</td>
<td>City in a Global Society</td>
<td>4</td>
</tr>
<tr>
<td>SOC 481</td>
<td>Sociology of Brazil</td>
<td>3</td>
</tr>
<tr>
<td>SOC 482</td>
<td>Global Immigration and Immigrants</td>
<td>3</td>
</tr>
<tr>
<td>SOC 483</td>
<td>Global Sociology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 484</td>
<td>Population and Social Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>SOC 645</td>
<td>Sociology of Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>

\(^1\) The remaining units may include additional courses from these areas, 3-4 upper-division units outside sociology upon approval of a sociology advisor and any other course with a sociology prefix including SOC 105, SOC 110, SOC 200, SOC 245 and courses taken at other institutions. A maximum of 12 units may be transferred from other institutions.

**Note:** A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

The department strongly encourages students interested in pursuing an M.A. or Ph.D. in sociology to take both SOC 370 and SOC 371 and all three methods courses (SOC 392, SOC 393, and SOC 394).

**Complementary Studies**

Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the sociology major:

- Option 1: 12 units of courses in departments or programs in the College of Ethnic Studies that are not cross-listed with SOC.
- Option 2: Partial completion of any minor degree program approved by a sociology advisor
- Option 3: 12 units of a single foreign language

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td>Written English</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>Written English</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td>Lab Science</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Social Sciences</td>
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</tbody>
</table>
SF State Studies

<table>
<thead>
<tr>
<th></th>
<th>LD or UD</th>
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</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)

Transfer Student Roadmap (2 Year)

For students with an AA-T in Sociology. This roadmap opens in a new tab. (p. 997)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Sociology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.asiist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)
Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Arts in Sociology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 42

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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<tr>
<td>SOC 105</td>
<td>Sociological Perspectives</td>
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<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td>GE Area C: Arts (C1)</td>
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<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>Major Electives (23-24 Units Total)</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>6</td>
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<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>SOC 300GW</td>
<td>Sociological Analysis - GWAR</td>
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<tr>
<td>Major Electives (23-24 Units Total) – Take Two</td>
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</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td></td>
<td>Units</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<td>SOC 370 or SOC 371</td>
<td>Classical Theories of Society or Contemporary Theories of Society</td>
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<td>Major Electives (23–24 Units Total)</td>
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<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<tr>
<td></td>
<td>Units</td>
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<tr>
<td><strong>Seventh Semester</strong></td>
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<tr>
<td>SOC 392</td>
<td>Introduction to Research Methods</td>
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<tr>
<td>Major Electives (23-24 Units Total)</td>
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<td>6</td>
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<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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Complementary Studies or SF State Studies or University Elective 3

<table>
<thead>
<tr>
<th>Units</th>
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**Eighth Semester**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
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<tbody>
<tr>
<td>SOC 393 or SOC 394</td>
<td>Quantitative Analysis of Social Data or Sociological Field Methods</td>
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<tr>
<td>Major Electives (23-24 Units Total) – Take Two 5</td>
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<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SOC 500</td>
<td>Senior Seminar</td>
</tr>
<tr>
<td>SOC 503 &amp; SOC 504</td>
<td>Research Internship Seminar and Research Internship Experience</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective 3</td>
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</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Total Units:** 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**
   - Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)
   - Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the sociology major:
     - Option 1: 12 units of courses in departments or programs in the College of Ethnic Studies that are not cross-listed with SOC.
     - Option 2: Partial completion of any minor degree program approved by a sociology advisor.
     - Option 3: 12 units of a single foreign language.

4. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how their transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

5. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Major Electives (23-24 units)**

   **Area 1: Inequalities in the United States**
   - SOC 272 Social Inequality: Poverty, Wealth, and Privilege (4 units)
   - SOC 330 Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation (3 units)
   - SOC 362 The Social Construction of Deviance and Conformity (4 units)
   - SOC 400 Variations in Human Sexuality (3 units)
   - SOC 455 Punishment and Social Control (3 units)
   - SOC 467 Lesbian, Gay, Bisexual, Transgender, and Queer Cultures and Society (4 units)
   - SOC 468 Social Aspects of Human Sexuality (4 units)
   - SOC 469 Gender and Society (4 units)
   - SOC 491 Ancestors or Data? Culture, Conflict, and NAGPRA (3 units)
   - SXS 400 Variations in Human Sexuality (3 units)

   **Area 2: Global Inequalities**
   - SOC 461 Ethnic Relations: International Comparisons (4 units)
   - SOC 471 Societal Change and Development (4 units)
   - SOC 477 Environmental Sociology (3 units)
   - SOC 480 City in a Global Society (4 units)
   - SOC 481 Sociology of Brazil (3 units)
   - SOC 482 Global Immigration and Immigrants (3 units)
   - SOC 483 Global Sociology (4 units)
   - SOC 484 Population and Social Dynamics (4 units)
   - SOC 645 Sociology of Latin America (3 units)
Up to 12 lower-division units are accepted as electives including SOC 105, SOC 110, SOC 200, SOC 245. Remaining units may include additional courses from Area 1 or 2 above, 3-4 upper-division units outside sociology upon approval of a sociology advisor and any other course with a sociology prefix including SOC 105, SOC 110, SOC 200, SOC 245.
Bachelor of Arts in Sociology – SOC Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017-2018 with an AA-T in Sociology. 12 units in the major and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 300GW</td>
<td>Sociological Analysis - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>Major Elective Area I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
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<td></td>
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<tr>
<td>Upper Division GE: UD-B or UD-C</td>
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<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
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<td>3</td>
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<tr>
<td>or University Elective if US History met before transfer</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>SOC 370</td>
<td>Classical Theories of Society</td>
<td>4</td>
</tr>
<tr>
<td>or SOC 371</td>
<td>or Contemporary Theories of Society</td>
<td></td>
</tr>
<tr>
<td>Major Elective Area II</td>
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</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
<td></td>
<td>3-4</td>
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<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
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<td>3</td>
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<tr>
<td>or University Elective if US/CA Government met before transfer</td>
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<tr>
<td>University Elective</td>
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<td>1-2</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 392</td>
<td>Introduction to Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>Major Upper Division Elective on advisement</td>
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<td>3-4</td>
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<tr>
<td>University Elective – Take Two</td>
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<td>6-8</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>SOC 393</td>
<td>Quantitative Analysis of Social Data</td>
<td>4</td>
</tr>
<tr>
<td>or SOC 394</td>
<td>or Sociological Field Methods</td>
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<td>Major Capstone – Select One of These Options:</td>
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<tr>
<td>SOC 500</td>
<td>Senior Seminar</td>
<td></td>
</tr>
<tr>
<td>SOC 501 &amp; SOC 502</td>
<td>Internship: Applied Sociology</td>
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</tr>
<tr>
<td></td>
<td>and Internship Seminar: Applied Sociology</td>
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</tr>
<tr>
<td>SOC 503 &amp; SOC 504</td>
<td>Research Internship Seminar</td>
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<tr>
<td></td>
<td>and Research Internship Experience</td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Elective – On Advisement</td>
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<td>3-4</td>
</tr>
<tr>
<td>University Elective</td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Total Units</strong></td>
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<td>60</td>
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</tbody>
</table>

1. If ENG 214 or equivalent is not completed prior to transfer, take SOC 300GW in second semester. This will extend time to degree.
2. SOC courses in this area also satisfy UD-D.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University–Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
• American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not met pre-transfer.
• Upper division GE, areas B, C and D (9 units): Check the Class Schedule for Area I and II courses that also satisfy UD GE (0).
• Students entering this major with the AA-T in Sociology are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Sociology Major: 30–31 Units**

• Required Courses (16 units): Note that there is a four semester sequence for required courses:

  1) SOC 300GW, 2) SOC 370 or SOC 371, 3) SOC 392, and 4) SOC 393 or SOC 394

• Capstone (3 units): SOC 500 or SOC 501 and SOC 502 or SOC 503 and SOC 504

• Elective Courses: (9–12 units)
  • 12 units from ADT may be applied to electives
  • 6–8 units: Take one course from Area I and one course from Area II
  • 3–4 units: Select in consultation with department advisor

**University Electives: Ten or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.
Assistant Professor
Sparks

Lecturer
Silverman

Majors
• Bachelor of Arts in Urban Studies and Planning (p. 599)

Minors
• Minor in Urban Studies and Planning (p. 604)

Bachelor of Arts in Urban Studies and Planning

The urban studies and planning major offers an interdisciplinary curriculum in urban planning and policy and reflects a social science education with an applied, problem-solving focus, training in research methods, and practical hands-on experience in a carefully supervised internship and a practicum (senior seminar). Core courses integrate social science, planning and policy perspectives into the study of cities, develop the research and analytic tools necessary for urban planning and policy analysis, and offer hands-on applied research experience. Elective courses are designed to apply the basic core course content to urban planning and policy areas of interest.

The B.A. in Urban Studies and Planning is recognized as a solid basis for graduate study. Recent program graduates have gone on to M.A. and Ph.D. programs in schools of city and regional planning (Cornell, Harvard, UC Berkeley, UCLA, NYU, the New School for Social Research, the University of Texas at Austin), schools of public policy and administration (Kennedy School, Georgetown, UC Berkeley, San Francisco State), and other fields including law, architecture, social work, public health. We also have a large number of students who seek entry-level urban planning and policy jobs with a B.A. in Urban Studies and Planning.

Many of the urban studies and planning courses included below in the list of program requirements are cross-listed with other departments.

• All students who begin their studies as majors or minors in Fall 2009 or later are required to receive at least a grade of C in all courses in the major or minor.
• All courses in the major or minor (including electives) must be taken for a letter grade.
• Students planning to enroll in USP 603 and USP 604 must attend a mandatory informational meeting the semester preceding their enrollment in these courses.

USP majors who successfully complete USP 401GW in fall 2009 or thereafter will have satisfied the University Graduation Writing Assessment Requirement (GWAR).

Urban Studies and Planning (B.A.) — 43–45 units

Core (30–31 units)

Introductory Course
USP 401GW Seminar in Urban Studies and Planning - GWAR 3

Cross-disciplinary Perspectives
Drawing upon the basic social science disciplines to provide a broad-based understanding of urban growth and change.

Select 7–8 units from the following: 7-8

- SOC 480/USP 470 City in a Global Society
- USP/GEOG 432 Urban Geography
- USP/PLSI 512 Urban Politics and Community Power
- USP/ECON 535 Urban Economics

Research Methods and Data Analysis
Providing the basic tools necessary for effective research and analysis.
- USP/PLSI 492 Research Methods 4
- USP/PLSI 493 Data Analysis 4

Foundation Course in Policy or Planning
Developing the conceptual and analytic approaches necessary for effective action intended to address current urban issues
Select one of the following: 4
- USP/PLSI 480 Introduction to Urban Policy and Analysis
- USP/GEOG 658 Land-Use Planning

Fieldwork and Practical Applications
Internship and research project providing carefully supervised hands-on experience in both a real-world work setting (the internship) and a practicum (the senior seminar).
- USP/PLSI 603 Public Service Internships 3
- USP/PLSI 604 Internship Seminar 1
- USP 680 Senior Seminar 4
- or USP 681 Senior Thesis

Electives (13–14 units)
Focus of Interest
Upper division electives chosen by each student with the approval of a faculty advisor. The electives are courses focusing on particular urban planning and policy issue areas in which the theoretical and analytic approaches developed in the core courses are applied to critical contemporary issues. This allows students to develop familiarity and some expertise in a public policy area. Major urban planning and policy areas include housing and community development, land use planning, transportation, sustainable development, and social policy. See the Department of Urban Studies and Planning Advising Handbook for descriptions of possible foci of interest.

Complementary Studies
Students completing a Bachelors of Arts in Urban Studies and Planning must complete twelve units in complementary courses bearing a prefix other than USP and not cross-listed with USP. The units used to satisfy Complementary Studies may be in a minor (or a partial minor if the minor requires more than 12 units), a foreign language, or a coherent group of courses from the following departments/colleges: Political Science, Geography, History, Sociology, Environmental Studies, Economics, and the departments in the College of Ethnic Studies. All complementary studies units must be approved by an advisor in the major.

Any courses with prefixes other than USP or cross-listed with USP that can be counted toward the major can also count toward the Complementary Studies Requirement.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
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<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
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<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Reasoning</td>
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<td>3</td>
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<td>LD</td>
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<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
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<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
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<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
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<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
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<td>UD-B</td>
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<td>Arts and/or Humanities</td>
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<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3
Environmental Sustainability (ES)             | LD or UD | 3
Global Perspectives (GP)                      | LD or UD | 3
Social Justice (SJ)                           | LD or UD | 3

Note: LD = Lower Division; UD = Upper Division.
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
### Bachelor of Arts in Urban Studies and Planning Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 43

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Four</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USP 401GW</td>
<td>Seminar in Urban Studies and Planning - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>USP 480</td>
<td>Introduction to Urban Policy and Analysis or Land-Use Planning</td>
<td>4</td>
</tr>
<tr>
<td>or USP 658</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USP 492</td>
<td>Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>USP 493</td>
<td>Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Major Cross-disciplinary Perspectives (7-8 units total)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Major Elective (13-14 units total) On Advisement</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>13-15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USP 603 &amp; USP 604</td>
<td>Public Service Internships and Internship Seminar</td>
<td>4</td>
</tr>
<tr>
<td>Major Cross-disciplinary Perspectives (7-8 units total)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Major Elective (13-14 units total) On Advisement</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective 4 3

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-18</td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 680 or USP 681</td>
<td></td>
</tr>
<tr>
<td>Senior Seminar or Senior Thesis</td>
<td>4</td>
</tr>
<tr>
<td>Major Elective (13-14 units total) On Advisement</td>
<td>6-8</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective 4</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-15</td>
</tr>
</tbody>
</table>

| Total Units | 120-127 |

---

1. To avoid taking additional units, it is recommended that you meet LLD and **SF State Studies** requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. Complementary Studies
   - Students completing a Bachelors of Arts in Urban Studies and Planning must complete 12 units in complementary courses bearing a prefix other than USP and not cross-listed with USP. The units used to satisfy Complementary Studies may be in a minor (or a partial minor if the minor requires more than 12 units), a foreign language, or a coherent group of courses from the following departments/college: Political Science, Geography, History, Sociology, Environmental Studies, Economics, and the departments in the College of Ethnic Studies. All complementary studies units must be approved by an advisor in the major.
   - Any courses with prefixes other than USP or cross-listed with USP that can be counted toward the major can also count toward the Complementary Studies Requirement.
5. **Major Cross-Disciplinary Perspectives Courses**
   - SOC 480/USP 470 City in a Global Society (4 units)
   - USP 432/GEOG 432 Urban Geography (4 units)
   - USP 512/PLSI 512 Urban Politics and Community Power (4 units)
   - USP 535/ECON 535 Urban Economics (3 units)
Minor in Urban Studies and Planning

The minor consists of a two core course and three elective courses in urban planning and policy.

Urban Studies and Planning Minor — 20 — 23 units

Core Courses (7 units)

Required of all students

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 401GW</td>
<td>Seminar in Urban Studies and Planning - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>USP/PLSI 492</td>
<td>Research Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (13 - 16 units)

Select 13-16 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP/GEOG 433</td>
<td>Urban Transportation</td>
<td>4</td>
</tr>
<tr>
<td>USP/PLSI 480</td>
<td>Introduction to Urban Policy and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>USP 514</td>
<td>Sustainable Development in Cities</td>
<td>4</td>
</tr>
<tr>
<td>USP 515/GEOG 667</td>
<td>Environmental Justice: Race, Poverty, and the</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>USP/PLSI 560</td>
<td>Urban Poverty and Policy</td>
<td>4</td>
</tr>
<tr>
<td>USP/PLSI 580</td>
<td>Housing Policy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>USP/GEOG 652</td>
<td>Environmental Impact Analysis</td>
<td>4</td>
</tr>
<tr>
<td>USP/GEOG 658</td>
<td>Land-Use Planning</td>
<td>4</td>
</tr>
<tr>
<td>USP/SW 660</td>
<td>The Roles of Nonprofit Organizations in Urban Life</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved substitute(s) with consent of advisor 3-4
AFRICAN STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

African Studies Program
Humanities Building, Room 461
Phone: (415) 338-2495
Director: Aiguibou Yansané

Program Scope
The African Studies Minor is a multidisciplinary program in African history, politics, economics, and cultures, designed to provide students with a broad understanding of the issues facing African communities, societies, and nation-states in the past as well as the present. Courses from multiple departments and programs are incorporated into the African Studies Minor, offering different disciplinary bases for the examination and analysis of African contributions to world civilizations. It enables students to integrate and apply knowledge in the evolution of African societies from being the cradle of humanity to providing labor for the use of other civilizations and through colonial and post-colonial linkages, technological expansion and economic liberalization. Students will examine African accomplishments, mores, traditions, cultures and civilizations to finish the minor with a greater degree of understanding of, and tolerance for, cultural differences and ethnic pluralism as well as the problems inherent in the process of social change in Africa and the African Diaspora.

Students who select this minor are presented with different disciplinary and interdisciplinary perspectives. Common to all these perspectives is the critical examination of social change/modernization/development/globalization. It is hoped that students will be provided the tools to enable them to build their own frames of reference, syntheses of concepts, data, and theories, to enrich their social attitudes and cultural values concerning Africa and to appreciate its richness and its unity in diversity.

Career Outlook
Students will be encouraged to take advantage of the African Studies Minor to apply their knowledge, understanding, and interest in things African to their career goals (teaching, journalism, business, and international endeavors in the public sector, non-governmental agencies, and multilateral institutions).

Professors
Clavier, Getz, Richards, Yansané

Associate Professors
Akom, McDougal, Steier

African Studies Minor – 24 units
Students interested in this minor should see one of the African Studies faculty to choose the courses most appropriate to them. (Note: No more than six units may be taken on a CR/NC basis; no more than nine units may be transferred from other campuses.) All students completing the minor are required to demonstrate intermediate level competency in a relevant language other than English. For specific information on how to meet the requirement, students should consult with the coordinator of the minor program.

The African Studies Minor consists of a core curriculum of three courses which contain material and perspectives which reach across the normal disciplinary divisions of the University plus 15 units of upper division courses taken from the following list, on advisement.

Core Requirements (9 units)
Select one from each of the following areas: 9

Classical Africa
AFRS 305 Ancient Egypt
CLAR 500 Ancient Egyptian Civilization

Africa: Tradition and Transition
AFRS 302 Black Diaspora
HIST 610 History of Africa

Modern Africa
AFRS 301 Africa in Global Perspective
HIST 611 Modern Africa
HUM 360 Styles of African Cultural Expression

Electives (15 units)
Units selected on advisement with at least one course from each group and no duplication of courses that were taken as part of the core curriculum

Behavioral and Social Sciences
ECON 620 Economic Development 3
HIST 610 History of Africa 3
HIST 611 Modern Africa 3
IR/IPSI 321 Development and Foreign Policy–Africa 4
IR/GEOG 428 International Political Economy of Food and Hunger 4
IR 520 Globalization and Development 4
IR 540 The Rich and the Poor Nations 4
IR 632 Regional Economic Communities 4

Ethnic Studies
AFRS 300 From Africa to Olmec America: Ancient African Prehistory and History 3
AFRS 301 Africa in Global Perspective 3
AFRS 302 Black Diaspora 3
AFRS 305 Ancient Egypt 3
AFRS 411 African and African American Literature 3

Humanities and Arts
CLAR 500 Ancient Egyptian Civilization 3
CLAR 502 Ancient Egyptian Language and Literature 3

Language Requirement
All students completing the African Studies Minor are required to demonstrate intermediate level competency in a language (other than English), relevant to the area. This requirement may be met by completing the university entrance requirement of two years of high school language study, one year of successful college level language study, or by demonstration of equivalent competency.
AMERICAN STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

American Studies Program
Humanities Building, Room 409
Phone: (415) 338-1099
Fax: (415) 338-7030
Website: humanities.sfsu.edu (http://humanities.sfsu.edu)
Coordinator: Cristina Ruotolo
Advisor: Peter Richardson

Program Scope
American Studies is a cross-disciplinary program that offers students an opportunity to create an individualized major. The purpose of the major is to study the unity and diversity, the consensus and conflict, the continuity and change that characterize the many cultures and social structures of past and present United States. Each student takes core courses in History, Arts and Culture, Geography, and California Studies and, with help from the Program Advisor, creates an individualized set of elective courses drawn from across the University to pursue a particular set of questions about U.S. history, culture, and society.

Career Outlook
The American Studies major is appropriate for students who want a strong liberal arts experience that focuses on the United States, for those preparing for teaching careers, or a wide-ranging background as preparation for later study of the law, public administration, city planning, library, and museum work, and specialized graduate study.

Coordinator
Cristina Ruotolo

Undergraduate Advisor
Peter Richardson

Other Participating Faculty
Chris Sterba
Steve Savage

Major
• Bachelor of Arts in American Studies (p. 606)

Minor
• Minor in American Studies (p. 613)

Bachelor of Arts in American Studies
The Bachelor of Arts in American Studies is divided into two parts: a set of required core courses designed to introduce the themes of American studies, and a set of elective courses chosen from at least two disciplines related to a particular topic or theme in American studies.

Students entering this major should choose their theme or topic at least by the middle of the junior year in order to take advantage of courses in various departments appropriate to their topic. The program is directed by a coordinator and a council consisting of faculty from participating departments and students currently completing the major. Each student's program is developed in consultation with the coordinator and advisors.

American Studies (B.A.) – 39 Units

Required Courses (15 Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMST 300</td>
<td>Perspectives on American Culture</td>
<td>3</td>
</tr>
<tr>
<td>or Upper Division U.S. History Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 450/</td>
<td>California Culture</td>
<td>3</td>
</tr>
<tr>
<td>AMST 410</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 485/</td>
<td>The Arts and American Culture</td>
<td>3</td>
</tr>
<tr>
<td>AMST 310</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or HUM 490</td>
<td>American Images: Photography and Literature</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
</tr>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
</tr>
<tr>
<td>HUM 300GW</td>
<td>Junior Seminar Humanities Writing - GWAR</td>
</tr>
</tbody>
</table>

or another course that satisfies the Graduation Writing Assessment Requirement (GWAR) on advisement.

Elective Courses (24 Units)

Courses, by choice and advisement, on a topic or theme in American Studies, drawn from at least two disciplines. Up to six units may be in community college or lower division course work. For students with GPA 3.0 or higher, electives can include a senior course on advisement: Independent Study (699) on a specific topic connected to prior course work, to be developed through consultation with the coordinator and faculty from the appropriate department (3–6 units).

Courses especially appropriate as electives for the American Studies major are offered by the following departments (not an exclusive list):

- Africana Studies
- American Indian Studies
- Art
- Asian American Studies
- Cinema
- English
- Geography
- History
- Humanities
- Journalism
- Latina/Latino Studies
- Music
- Political Science
- Race and Resistance Studies
- Social Science
- Urban Studies and Planning
- Women and Gender Studies
Complementary Studies
To fulfill the Complementary Studies requirement, all students completing a B.A. degree must take twelve units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing an American Studies major, so no additional units beyond the major are required to fulfill the complementary studies requirement.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Governeement</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Area</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)
This roadmap (p. 609) opens in a new tab.

Transfer Student Roadmap (2 Year)
For students with an AA-T in Social Justice Studies. This roadmap opens in a new tab. (p. 611)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Social Justice Studies

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Arts in American Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) (^1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) (^2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4) (^3)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective (^5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) (^4)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td>3</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two (^5)</td>
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<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>Major Elective (24 units total) – Take One (^6)</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) (^4)</td>
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<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three (^5)</td>
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<td>9</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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<tr>
<td>AMST 300</td>
<td>Perspectives on American Culture</td>
<td>3</td>
</tr>
<tr>
<td>Select One GWAR Course</td>
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</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td></td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
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</tr>
<tr>
<td>HUM 300GW</td>
<td>Junior Seminar Humanities Writing - GWAR</td>
<td></td>
</tr>
<tr>
<td>Major Elective (24 units total) – Take One (^6)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^6)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>HUM 450</td>
<td>California Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 485 or HUM 490</td>
<td>The Arts and American Culture or American Images: Photography and Literature</td>
<td></td>
</tr>
<tr>
<td>Major Elective (24 units total) – Take One (^6)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^6)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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</table>
## Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td>3</td>
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<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
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</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
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</table>

**Major Elective (24 units total) – Take Two** 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
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</tbody>
</table>

**Complementary Studies or SF State Studies or University Elective – Take Two** 6

**Units** 15

## Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
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</table>

**Major Elective (24 units total) – Take Three** 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
<td></td>
</tr>
</tbody>
</table>

**Complementary Studies or SF State Studies or University Elective – Take Two** 6

**Units** 15

**Total Units** 120-122

---

To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

MATH 60 and/or MATH 70 are required prerequisites to Area B4 unless you score 50 or higher on ELM or have an ELM exemption.

Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

### Complementary Studies

To fulfill the Complementary Studies requirement, all students completing a B.A. degree must take twelve units from courses outside of the primary prefix of their major and not cross-listed with the primary prefix for the major. This requirement is automatically fulfilled when completing an American Studies major, so no additional units beyond the major are required to fulfill the complementary studies requirement.

### Major Elective Courses

Courses, by choice and advisement, on a topic or theme in American Studies, drawn from at least two disciplines. Up to six units may be in community college or lower division course work. For students with GPA 3.0 or higher, electives can include a senior course on advisement: Independent Study (699) on a specific topic connected to prior course work, to be developed through consultation with the coordinator and faculty from the appropriate department (3-6 units).

Courses especially appropriate as electives for the American Studies major are offered by the following departments (not an exclusive list):

- African Studies
- American Indian Studies
- Art
- Asian American Studies
- Cinema
- English
- Geography
- History
- Humanities
- Journalism
- Latina/Latino Studies
- Music
- Political Science
- Race and Resistance Studies
- Social Science
- Urban Studies and Planning
- Women and Gender Studies
Bachelor of Arts in American Studies – SJS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. Six units in the major (electives) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMST 310/HUM 485</td>
<td>The Arts and American Culture</td>
<td>3</td>
</tr>
<tr>
<td>AMST 410/HUM 450</td>
<td>California Culture</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 was met in transfer</td>
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<td></td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>or RRS 600/HIST 466</td>
<td>or History of People of Color in the U.S.</td>
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</tr>
<tr>
<td>Major Required – Also Fulfills University GWAR – Take One</td>
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<td>3</td>
</tr>
<tr>
<td>ETHS 300GW</td>
<td>Writing in Ethnic Studies - GWAR</td>
<td></td>
</tr>
<tr>
<td>HIST GWAR course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM GWAR course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government Course (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Required – Select One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td></td>
</tr>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
<td></td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 3–9 Units**

- ENG 214 if not completed prior to transfer (0–3 units)
- American Institutions (0–3 units); US Government/California State and Local Government requirement if not completed prior to transfer. The AMST major includes a required upper division course which also satisfies the US History requirement for graduation – view course descriptions.
• Upper division GE (3 units): Take a course to satisfy UD-B. Courses approved for UD-C and UD-D also satisfy major requirements – view course descriptions.
• Students entering the major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**American Studies Major: 33 Units**

Apply up to six units from the ADT to the Elective Courses area.

• Required courses (15 units) – includes GWAR-designated course
• Elective courses (18 units) – Courses, by choice and advisement, on a topic or theme in American Studies, drawn from at least two disciplines.

Consult University Bulletin for a list of appropriate departments.

**University Electives: 18 Units or More**

Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.
Minor in American Studies

American Studies Minor — 21 units

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AMST 300</td>
<td>Perspectives on American Culture</td>
<td>3</td>
</tr>
<tr>
<td>or Upper Division U.S. History Course</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td></td>
</tr>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
<td></td>
</tr>
<tr>
<td>HUM 450/AMST 410</td>
<td>California Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 485/AMST 310</td>
<td>The Arts and American Culture</td>
<td>3</td>
</tr>
<tr>
<td>or HUM 490</td>
<td>American Images: Photography and Literature</td>
<td></td>
</tr>
</tbody>
</table>

Elective Courses (9 units)

These courses, chosen upon advisement from throughout the appropriate departments and programs of the University, allow the student to explore a particular theme or topic in American Studies.
ANTHROPOLOGY

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Anthropology
Fine Arts Building, Room 525
Phone: (415) 338-2046
Website: anthropology.sfsu.edu (http://anthropology.sfsu.edu)

Chair: Cynthia Wilczak
Undergraduate Coordinator: Jeffrey Schonberg
Graduate Coordinator: Douglass Bailey

Program Scope
Anthropology is the study of humankind over time and place. Undergraduates majoring in anthropology are exposed to a multi-field approach that examines current cultures, the study of remains of past societies, study of human evolution and variation, all with an aim of further understanding what it means to be human.

The Bachelor of Arts in Anthropology is designed to serve the needs of students who do not plan to continue their training beyond the baccalaureate level, as well as those who intend to pursue graduate study leading to the M.A. or Ph.D. in anthropology or in another academic discipline.

The Master of Arts in Anthropology is offered for those who plan to continue their graduate work elsewhere toward the doctorate as well as those who plan to terminate their training at the master’s level and seek employment or obtain a teaching credential.

Career Outlook
Anthropological skills are important for careers in public and private sector social services, health, community organizing and advocacy, cultural resource management, urban planning, international economic development, culturally-focused mass media, environmental assessment, education, social work, investigative journalism, and public policy. The principal goals of the department are:

1. to provide an enriched vision of humanity and culture around the globe as well as an increased sensitivity to our everyday experiences of cultural and ethnic diversity, and
2. to train students who choose to pursue careers in teaching, research, and applied fields at the M.A. level, as well providing a solid basis for those who plan to pursue a doctoral degree.

Professors
Bailey, Biella, Quesada

Associate Professors
Griffin, Wilczak

Assistant Professors
Lincoln, Reifsneider

Adjunct Faculty
Caldararo, Tully, Schonberg

Major
• Bachelor of Arts in Anthropology (p. 614)

Minor
• Minor in Anthropology (p. 622)

Masters
• Master of Arts in Anthropology (p. 622)

Bachelor of Arts in Anthropology

The undergraduate program is built around a core of courses designed to provide a broad base of knowledge in the field. Courses in several areas give concentrated preparation for careers or graduate training in anthropology.

No subfield concentration is required for the baccalaureate degree in anthropology. However, several sequences of courses are recommended for students who want to concentrate in a particular subfield. Majors are required to meet with an advisor every fall semester to discuss the most appropriate course sequence.

Students are also encouraged to meet with an advisor early in their college career to discuss Study Abroad options in consultation with the Office of International Programs.

• Anthropology majors must complete the foundation core before enrolling in the remaining major requirements
• At least one upper division course in Area 1, Area 2, or electives, must be taken in each of the three subfields:
  • biological,
  • cultural/visual, and
  • archaeology.
• The university-wide electives must be pre-approved by an advisor to qualify as credits toward the major.
• No more than six units can be taken in internships (ANTH 695), independent study (ANTH 699), and teaching (ANTH 685) combined.
• Courses taken in fulfillment of major requirements must be taken for a letter grade (no CR/NC).

Anthropology Major (B.A.) — 40 Units

Foundation Core (15 Units)
ANTH 100 Introduction to Biological Anthropology 3
ANTH 110 Introduction to Archaeology 3
ANTH 120 Introductory Social and Cultural Anthropology 3
ANTH 300 Foundations of Anthropology: History 3
ANTH 305GW Writing Anthropology - GWAR 3

Area 1: Theory and Foundations (3 Units)
Select one of the following:
ANTH 301 Foundations of Archaeology 3
ANTH 302 Foundations of Human Variation 3
ANTH/SOC 420 Indigenous Media and Social Change 4
Area 2: Methods and Practicum (4-6 Units)
Students may choose six units from Area 2 and reduce the number of anthropology electives to nine units.

Select one of the following:
- ANTH 333 Primate Behavior 4
- ANTH 530 Human Osteology Practicum 4
- ANTH 531 Fossil Humans Practicum 4
- ANTH 592 Archaeological Methods 4
- ANTH/USP 557 Ethnography of the Inner City 4
- ANTH/CINE 595 Visual Anthropology I 6
- ANTH/CINE 596 Visual Anthropology II 4
- ANTH 651 Ethnographic Field Methods 4
- ANTH 652 Anthropological Statistics 4

Electives in Anthropology (12 Units)
Upper division units selected from any courses with the ANTH prefix including those from the two areas that have not been used to fulfill the area requirements.

University-wide Electives (6 Units)
Upper division courses by advisement in anthropology or related fields. Students must have advisor approval for courses they want to apply to the major.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). Students completing this major may not reach the required number of upper division units required for graduation. Additional upper division courses may be needed to reach the required total.

Complementary Studies
All candidates for the Bachelor of Arts in Anthropology must complete at least 12 units of complementary studies from courses outside the primary prefix for the major, and not cross-listed with the primary prefix for the major. Students who complete a second major, a minor, or a minimum of 12 units in an approved Study Abroad program, automatically complete the Complementary Studies requirement and units may be double-counted toward the major where applicable.

Other options for complementary studies are:
1. Foreign Language: 12 units in a single foreign language; or
2. Related Subjects: 12 units of course work in related disciplines with the approval of an Anthropology Department advisor.

Related disciplines typically included courses in the College of Ethnic Studies, Classics, Geology, Geography, Sexuality Studies, Sociology, History, Language Studies, and Women and Gender Studies. Up to six units may be double-counted toward fulfillment of the University-wide elective units for the major. Units may be upper division, lower division, transfer or resident units.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD or UD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
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<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.
First Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 618)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Anthropology. This roadmap opens in a new tab. (bulletin.sfsu.edu/colleges/liberal-creative-arts/anthropology/ba-anthropology/roadmap/aa-t)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Anthropology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student.

However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government

   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.
Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Anthropology Roadmap

120 Total Units Required  
Minimum number of units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 100</td>
<td>Introduction to Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ANTH 110</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>ANTH 120</td>
<td>Introductory Social and Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ANTH 300</td>
<td>Foundations of Anthropology: History</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ANTH 305GW</td>
<td>Writing Anthropology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>4</td>
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<tr>
<td>ANTH 301</td>
<td>Foundations of Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 302</td>
<td>Foundations of Human Variation</td>
<td></td>
</tr>
<tr>
<td>ANTH 420</td>
<td>Indigenous Media and Social Change</td>
<td></td>
</tr>
<tr>
<td>Major Electives in Anthropology (12 Units Total) – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Electives University-Wide (6 Units Total) – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
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<td>16</td>
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<tr>
<td>Major Area 2: Methods and Practicum – See List – Select One</td>
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<td>3-6</td>
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<tr>
<td>Major Electives in Anthropology (12 Units Total) Take One</td>
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<td>3</td>
</tr>
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</table>
### Major Electives University-Wide (6 Units Total) – Take One

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<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
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<td>3</td>
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Complementary Studies or SF State Studies or University Elective

<table>
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<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
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</tbody>
</table>

| Units                          | 14-17 |

### Eighth Semester

Major Electives in Anthropology (12 Units Total) – Take Two

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>6</td>
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Complementary Studies or SF State Studies or University Elective – Take Three

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

| Units                          | 15    |

| Total Units                    | 120-124 |

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. MATH 60 and/or MATH 70 are required prerequisites to MATH 110 unless you score 50 or higher on ELM or have an ELM exemption.
4. **Complementary Studies**
   - All candidates for the Bachelor of Arts degree in Anthropology must complete at least 12 units of complementary studies from courses outside the primary prefix for the major, and not cross-listed with the primary prefix for the major. Students who complete a 2nd major, a minor, or a minimum of 12 units in an approved Study Abroad program, automatically complete the Complementary Studies requirement and units may be double-counted toward the major where applicable.
   - Other options for complementary studies are:
     1. Foreign Language: 12 units in a single foreign language; or
     2. Related Subjects: 12 units of course work in related disciplines with the approval of an Anthropology Department advisor.
   - Related disciplines typically included courses in the College of Ethnic Studies, Classics, Geology, Geography, Sexuality Studies, Sociology, History, Language Studies, and Women and Gender Studies. Up to six units may be double-counted towards the fulfillment of the University-Wide elective units for the major. Units may be upper division, lower division, transfer or resident units.
5. Upper division units selected from any courses with the ANTH prefix including those from the two areas that have not been used to fulfill the area requirements. Students may choose six units from Area 2 and reduce the number of anthropology electives to nine units.
6. Upper division courses taken by advisement in anthropology or related fields. Students must have advisor approval for courses they want to apply to the major.
7. **Area 2: Methods and Practicum**
   - Select one of the following:
     - ANTH 333 Primate Behavior (4 units)
     - ANTH 530 Human Osteology Practicum (4 units)
     - ANTH 531 Fossil Humans Practicum (4 units)
     - ANTH 592 Archaeological Methods (4 units)
     - ANTH 557/USP 557 Ethnography of the Inner City (4 units)
     - ANTH 595/CINE 595 Visual Anthropology I (6 units)
     - ANTH 596/CINE 596 Visual Anthropology II (4 units)
     - ANTH 651 Ethnographic Field Methods (4 units)
     - ANTH 652 Anthropological Statistics (4 units)
Bachelor of Arts in Anthropology – ANTH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Anthropology.

Nine units in the major (ANTH 100, ANTH 110, ANTH 120) and all GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 300</td>
<td>Foundations of Anthropology: History</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 305GW</td>
<td>Writing Anthropology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 302</td>
<td>Foundations of Human Variation</td>
<td>3</td>
</tr>
<tr>
<td>US/CA Government (p. 75)</td>
<td>or University Elective if US/CA Government met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>Major ANTH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (university-wide upon advisement)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 327</td>
<td>Anthropology and Film</td>
<td>3</td>
</tr>
<tr>
<td>or ANTH 609</td>
<td>or Approaches to the African Past</td>
<td></td>
</tr>
<tr>
<td>Area 2: Major Methods and Practicum – See list below</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Major ANTH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 569</td>
<td>Cross-Cultural Aspects of Sex and Gender</td>
<td>3</td>
</tr>
<tr>
<td>or ANTH 657</td>
<td>or Ethnology of Dance</td>
<td></td>
</tr>
<tr>
<td>Major Elective (university-wide upon advisement)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective – Take Three</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. If ENG 214 or equivalent is not completed prior to transfer, then ANTH 305GW must be completed in the second semester. Progress in the major and length of time for degree completion may be affected if this requirement is not completed before transfer.

2. ANTH 302 also fulfills UD GE: B.

3. For Major Elective, select non-ANTH course on advisement (6 total units of advisement electives needed).

4. ANTH 327/ANTH 609 also fulfills UD GE: D.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
• American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not completed prior to transfer
• Upper Division GE areas B, C and D (9 units): See notes for courses that satisfy both major and UD GE requirements.
• Students entering this major with the AA-T in Anthropology are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Anthropology Major: 30 Units**
(ANTH 100, ANTH 110, ANTH 120 met in transfer)

• Foundation Core (includes GWAR): six units
• Area 1 – Theory and Foundations: three units
• Area 2 – Methods and Practicum: four to six units (if six units taken, reduce ANTH electives to nine)
• Electives in ANTH: 11 units
• Additional Major Electives (non-ANTH): six units selected with major advisor’s approval.
• At least one UD course in Area One or Two or electives must be taken in each of three subfields: Biological, Cultural/Visual, and Archaeology.

**University electives: 12 or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State – some courses may meet more than one requirement, e.g. in both UD GE and in the major.

**Area 2: Major Methods and Practicum**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 333</td>
<td>Primate Behavior</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 530</td>
<td>Human Osteology Practicum</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 531</td>
<td>Fossil Humans Practicum</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 592</td>
<td>Archaeological Methods</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 595</td>
<td>Visual Anthropology I</td>
<td>6</td>
</tr>
<tr>
<td>ANTH 596</td>
<td>Visual Anthropology II</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 651</td>
<td>Ethnographic Field Methods</td>
<td>4</td>
</tr>
<tr>
<td>ANTH/USP 557</td>
<td>Ethnography of the Inner City</td>
<td>4</td>
</tr>
</tbody>
</table>
Minor in Anthropology

Anthropology Minor — 18–19 units

Core Requirements (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 100</td>
<td>Introduction to Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 110</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 120</td>
<td>Introductory Social and Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

Theory Requirement (3–4 units)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 300</td>
<td>Foundations of Anthropology: History</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 301</td>
<td>Foundations of Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 302</td>
<td>Foundations of Human Variation</td>
<td>3</td>
</tr>
<tr>
<td>ANTH/SOC 420</td>
<td>Indigenous Media and Social Change</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives in Anthropology (6 units)

Select additional upper division courses with the ANTH prefix.

Master of Arts in Anthropology

Admission to Program

The Department accepts applications for fall and spring semester enrollments. The deadline for application for admission to enroll for the fall is the first day of the preceding March. The deadline for application to enroll in the spring semester is the first day of the preceding November. In addition to these formal deadlines, the Department accepts, reviews, and makes decisions on applications on a rolling basis through the calendar year.

While we welcome applications from students with a wide range of experiences and a diversity of undergraduate degrees, we recommend that applicants have a B.A. or B.S. in Anthropology or an allied field. Students enrolling without an anthropology degree may be required to take the following prerequisite classes or equivalents.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 100</td>
<td>Introduction to Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 110</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 120</td>
<td>Introductory Social and Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 300</td>
<td>Foundations of Anthropology: History</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 301</td>
<td>Foundations of Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 302</td>
<td>Foundations of Human Variation</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may satisfy the prerequisite requirement by having taken similar classes at the undergraduate level at their undergraduate or other institution. Prerequisite course work will not count toward the degree and may not be included on the ATC.

Application for admission consists of two-part process, which must be completed simultaneously by the deadline to be considered for admission: the first made to the University; the second made to the Department. The University application is submitted to the Division of Graduate Studies through CSU Mentor secure.csumentor.edu/AdmissionApp/grad_apply.asp (https://secure.csumentor.edu/AdmissionApp/grad_apply.asp). The Anthropology Department application is made via the department’s on-line document submission page anthropology.sfsu.edu/content/apply (http://anthropology.sfsu.edu/content/apply), and consists of the following elements:

- One-page Curriculum Vitae;
- Statement of Purpose (500-word max.);
- Two Letters of Recommendation;
- Writing Sample;
- Official Transcripts;
- Graduate Record Examination (GRE) scores, and
- Test of English as a Foreign Language (TOEFL), if necessary.

Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One
A score of 4.0 or above on the analytical writing section of the GRE.

Level Two
Completion of the M.A. thesis (ANTH 898) or completion of the written component of the MA Creative Work Project (ANTH 894).

Classified Graduate Status

All graduate students are admitted to the program with conditionally classified status. To attain classified status, graduate students must meet the following:

- Completion of prerequisite coursework (if any).
- Completion of ANTH 710 with a grade of B or above.

Anthropology (M.A.) — 30 units

All students must complete the following courses and maintain a GPA of 3.0 or above:

Core (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 710</td>
<td>Proseminar in Anthropological Theory and Method</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 720</td>
<td>Foundations in Visual Anthropology</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 721</td>
<td>Seminar in Archaeological Problems</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 722</td>
<td>Seminar in Biological Anthropology</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 723</td>
<td>Seminar in Problems in Cultural Anthropology</td>
<td>2</td>
</tr>
</tbody>
</table>

Research Skills

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 715</td>
<td>Research Skills: The Craft of Anthropological Writing</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 716</td>
<td>Research Skills: The Literature Review</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 717</td>
<td>Research Skills: The Research Proposal</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 718</td>
<td>Research Skills: The Grant Proposal</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives (8–12 units)

To reach the minimum number of units required for the degree, students must:

- Take graduate elective classes (numbered 700 and above) selected from those offered in the Anthropology Department or, with approval, from other departments at SF State.
- Students are advised to take ANTH 899 Independent Study (1, 2, or 3 units) as part of their area of specialization. Students may take ANTH 899 no more than twice for a maximum total of six units.
• With approval, students may take upper division undergraduate classes.

NOTE: no more than 30% (nine units) of undergraduate course work may be included on the ATC. (Prerequisite course work may not be included on the ATC.)

**Language/Statistics Requirement (0–4 units)**
A grade of B or above required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 652</td>
<td>Anthropological Statistics (or Department-based language exam)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Culminating Experience (3 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 894</td>
<td>Creative Work Project</td>
<td>3</td>
</tr>
<tr>
<td>or ANTH 898</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>
ART

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Art
Accredited by the National Association of Schools of Art and Design (NASAD).
Fine Arts Building, Room 293
Phone: (415) 338-2176
Fax: (415) 338-6537
Undergraduate Email: sch_art@sfsu.edu
Graduate Email: artgrad@sfsu.edu
Website: http://art.sfsu.edu

Director: Gail Dawson
Graduate Coordinator: Chris Finley

Mission Statement
The SF State Art program is designed to provide students with intellectually informed instruction in the histories and practices of the visual arts within the context of a liberal arts university. The guiding principal of its curricula and instruction is the belief that art is an important means to interpret human experience, and is a fundamental mechanism by which a society evolves, understands, and reflects upon itself. It supports the university mission to offer instruction that promotes respect for and appreciation of scholarship, freedom, human diversity, and the cultural mosaic of the San Francisco Bay area and beyond, and encourages critical thinking within an inclusive worldview.

The curriculum provides students pathways to engage in personal, philosophical, political and/or conceptual questions through art practice, research, and writing. Using a heuristic approach to learning, fueled by curiosity, students are encouraged to understand and challenge normative paradigms, resulting in new forms and ways of thinking. The conceptual exploration of materials, objects, images, texts, actions, and events develops transferable skill sets that will enrich students’ lives and prepare them for roles as artists, curators, historians, and creative professionals. The program cultivates visual literacy and critical thinking, and engenders professional conduct (discipline), adaptability, social awareness, and social justice, through an understanding of the role of art in the human experience. The program currently offers degrees and undergraduates majors in the areas of art and art history, as well as pathways to teaching art.

Program Scope
The School of Art is committed to offering a fine arts curriculum in a liberal arts context with diverse and vital programs for the study of the visual arts in Northern California. Its programs foster development of specialized skills, encourage personal creative direction, and promote understanding of the history and cultural traditions that shape artistic expression. The School of Art faculty are dedicated to bridging the practice, theory and history of art, and to combining traditional and new technologies in a manner that reflects and affects contemporary culture. The Bachelor of Arts in Art program consists of a core and the choice of a concentration in Art Education, Art History, Studio Art, or Art History and Studio Art. The area of concentration focuses study in one specialty, but with a degree of breadth sufficient for understanding and awareness in other areas. All courses are designed to provide a broad experiential and conceptual orientation to the visual arts and art history. Advanced courses in the concentrations focus on perceptual skills, conceptual practices, creative expression, and critical thinking. Attention is given to traditions and heritage of the discipline, contemporary issues and forms, imaginative problem solving, and written English proficiency within the discipline.

The Master of Arts in Art is the only terminal master's degree in Art History in the San Francisco Bay Area. Coursework emphasizes methodology, history, research, and writing. Students produce a thesis that allows for focused research on a specific topic under the direction of a thesis advisor.

The Master of Fine Arts in Art program emphasizes the development of individual creative direction in the context of contemporary, interdisciplinary art practice. Coursework emphasizes contemporary art, critique, experimentation with forms of expression, and professional presentation of works of art.

The School's website offers additional information: http://art.sfsu.edu/

Facilities
The Fine Arts Building features specialized studio spaces for Sculpture, Fiber, and Material Studies (including a dye laboratory, loom, and surface design studios), Photography (including chemical and digital labs), Painting and Drawing, and Printmaking. Specialized equipment includes large format printers and a laser cutter. The building is also home to the 3,800 square foot Fine Arts Gallery, and the Martin Wong Gallery. Graduate studio spaces are located in the Fine Arts Building. The School maintains an instructional archive/collection of historic and contemporary prints, drawings, and photographs.

Career Outlook
Opportunities for the graduate with a bachelor’s degree in art vary depending on the student’s initiative and inclinations. Students dedicated to creative expression in art practice, or scholarly research in the history of art, may elect to pursue graduate education. Others may find opportunities for technical or on-the-job training in the related fields. A course in exhibition design is offered in the professional environment of the Fine Arts Gallery and provides intense, practical, and theoretical training for gallery and art museum careers. Art and art history students with an interest in working with visual artifacts, and with the diverse professional aspects of presenting art and artists elect courses in this popular area.

Graduate degrees open the door to teaching positions at the college-university level. Students who elect to pursue careers outside the arts may find access to more rewarding cultural life experiences through their visual arts education.

An art minor is offered for students who wish to pursue a secondary interest in art on a structured basis.

Graduate Program in Art
Two graduate programs are offered—Master of Arts with an emphasis in art history and a Master of Fine Arts in Art. The three-year professional M.F.A. curriculum is an integrated course of study across a spectrum of studio arts and their adjunct fields of theory, history, and criticism. The M.A. prepares students for doctoral studies and careers in galleries, museums, and other community institutions.
Art Learning Outcomes
1. Demonstrate competence in employing the fundamentals and principles of art in art practice and art history.
2. Demonstrate understanding of the traditional canons of art history and revisionist scholarship.
3. Evaluate and discern quality, meaning, and significance in works of art using the historical, theoretical, and social methods of art history and contemporary art practice.
4. Distinguish the various contexts in which art is experienced.
5. Show evidence of curiosity, risk-taking, experimentation and problem-solving to generate a personally constructed conceptual direction in art practice and research in visual and written work.
6. Understand the ethical dimensions of artistic practice and art historical scholarship within a global context.

Professors
Dawson, deSoto, Downing, Johnson, Laplante, Levine, Mann, Marshall, Perez

Associate Professors
Allen, Belau, De La Rosa, Kavuri-Bauer

Assistant Professors
Arcega, Crisp, Finley

Majors
• Bachelor of Arts in Art: Concentration in Art Education (p. 625)
• Bachelor of Arts in Art: Concentration in Art History (p. 633)
• Bachelor of Arts in Art: Concentration in Studio Art (p. 650)
• Bachelor of Arts in Art: Concentration in Art History and Studio Art (p. 642)

Minors
• Minor in Art (p. 660)

Masters
• Master of Arts in Art
  This program is under review for temporary suspension. Please contact the department for more information.
  • Master of Fine Arts in Art (p. 660)

Bachelor of Arts in Art: Concentration in Art Education

Admission
At the time of admission to the University, no special permission, application or portfolio review is required to declare the art major. Juniors or seniors who have declared in another major, but wish to change their major to art must:

Complete four courses with a grade of C or higher and two courses from each category:

Art History
ART 201 Western Art History I 3
ART 202 Western Art History II 3
ART/HUM 205 Asian Art History 3

Studio
ART 210 Introduction to Digital Media Arts 3
ART 222 Introduction to Textile Art 3
ART 231 Drawing 1 3
ART 235 Printmaking 1 3
ART 240 Introduction to Contemporary Sculpture 3
ART 245 Ceramics 1 3
ART 260 Photography 1 3

• Proof of consultation with an art advisor
• For students transferring from other institutions, a minimum of 12 units in residence is required.

Students are required to decide on a concentration by their junior year and to discuss their choice with an advisor in that area. Since some areas are very crowded, students transferring at an advanced level from other institutions should contact an advisor in their proposed concentration upon application for admission to the University. The concentration programs may be structured to fit individual needs after conferring with an advisor and obtaining the advisor’s approval.

Concentrations:
• The concentration in Art Education explores the place of the visual arts in elementary and secondary education, and in general human development.
• The concentration in Art History examines the history of visual form in relation to the values, beliefs, and institutions of specific cultures.
• The concentration in Studio Art provides students with the framework to develop their body of work through a variety of studio experiences supported by knowledge of past and contemporary art making practices.
• The concentration in Art History and Studio Art is available for students with combined interests in studio and art history. The concentration consists of a planned combination of courses in both areas, approved in advance by advisors in art history and studio.

Students should be aware that art practice is time-consuming and expensive. Instructional Materials Fees are required for most studio courses, and students may find themselves spending additional sums of money on their projects.

Studio practice courses require hands-on practice and experience; this limits the number of students who can enroll in such courses.

Studio Areas: Ceramics, Digital Media & Emerging Technology, Painting and Drawing, Printmaking, Photography, Sculpture, and Fiber and Material Practice

Each studio area is structured to provide a similar sequence of development in the medium. Lower division courses provide technical foundations and introduce students to upper division topics in the area of study; intermediate courses extend and deepen skills while providing opportunities for students to engage with conceptual and critical issues; and advanced courses help students develop a focused body of work.
with awareness of the historical and contemporary concerns of art practice more broadly.

**Advising**

Students are strongly encouraged to consult regularly with a major advisor on a regular basis as they advance through the program. A list of departmental advisors and contact information can be found on the School's website: http://art.sfsu.edu/pages/academic-advising.

Students are also advised to consult with the University’s Advising Center for information about General Education and other University requirements, as well as the Student Achievement and Resource Center in the College of Liberal & Creative Arts: http://cas.sfsu.edu/academics/student-achievement-and-resource-center.

**General Education Requirements Met in the Art Major:**

The requirement below is deemed “met in the major” upon completion of the courses listed (even though the courses are not approved for GE). This is true whether or not the student completes the major.

- Area C1 (Arts) is satisfied upon completion of both ART 201 and ART 205.

**Bachelor of Arts in Art: Concentration in Art Education – 46 Units**

**Lower Division Courses (15 Units)**

**Art History**

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART/HUM 205</td>
<td>Asian Art History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Studio Art**

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 210</td>
<td>Introduction to Digital Media Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 222</td>
<td>Introduction to Textile Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 235</td>
<td>Printmaking 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 240</td>
<td>Introduction to Contemporary Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 245</td>
<td>Ceramics 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 260</td>
<td>Photography 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Before advancing to the 300-level or higher courses or declaring a concentration, all majors must have completed the University’s lower division requirements and the lower division courses for the major, or equivalent. Change of major students must also have proof of art advisor consultation.

**Art History (6 Units)**

Two upper division courses: one in 20th- or 21st-century art and one in non-European art (unless non-European requirement was met in lower division art history).

**Upper Division Studio Art Courses (21 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 450</td>
<td>Art and Learning (replaces one upper division studio)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.

**Art Productions (1 Unit)**

**Graduate Writing Assessment Requirement (3 Units)**

**Complementary Studies**

All candidates for the Bachelor of Arts degree in Art must complete 12 units of complementary studies from courses bearing a prefix other than ART, and not cross-listed with ART.

Students may satisfy this requirement in a variety of ways designed to facilitate timely graduation. Under advisement students may complete 12 units of coursework in a single foreign language, an approved study abroad program, partial completion of a second major, minor, or certificate program in a related area of study. Related areas include Museum Studies, Design and Industry, Cinema, Music and Dance, Theatre, and Business. Requirements vary for each of the four Art concentrations (Studio; Art History, Art Education, and Studio/Art History) and students are strongly encouraged to work closely with their major advisor toward completion of this requirement.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

Note: Students who complete two majors, or a major and a minor, automatically complete the complementary studies requirement.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>
Social Sciences:  
US & CA Government  
Lifelong Learning and Self-Development (LLD)  
Physical and/or Life Science  
Arts and/or Humanities  
Social Sciences

<table>
<thead>
<tr>
<th>Course Area</th>
<th>LDM/UD</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 629)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Studio Arts. This roadmap opens in a new tab. (p. 631)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Studio Arts

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Art: Concentration in Art Education Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 46

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One Art History Course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Studio Requirement (Three Total) – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
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</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One Art History Course:</td>
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<td></td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Studio Requirement (Three Total) – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Art History Requirement (6 Units Total): Two upper division courses: one in 20th/21st century art and one in non-European art (unless non-European requirement was met in lower division art history)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division Studio Art Requirement (18 Units Total): Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
Sixth Semester
Art History Requirement (6 Units Total): Two upper division courses: one in 20th/21st century art and one in non-European art (unless non-European requirement was met in lower division art history) 3
Upper Division Studio Art Requirement (18 Units Total): Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year – Take Two 6
Complementary Studies or SF State Studies or University Elective – Take Two 4 6

Units 15

Seventh Semester
Upper Division Studio Art Requirement (18 Units Total): Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year – Take Two 6
GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective – Take Two 4 6

Units 15

Eighth Semester
ART 509  Art Productions: Studio, Art History, Art Education 1
EDUC 450  Art and Learning 3
Upper Division Studio Art Requirement (18 units total): Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year 3
Complementary Studies or SF State Studies or University Elective – Take Three 4 8

Units 15

Total Units 120-122

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4 Complementary Studies
All candidates for the Bachelor of Arts degree in Art must complete 12 units of complementary studies from courses bearing a prefix other than ART, and not cross-listed with ART.
Students may satisfy this requirement in a variety of ways designed to facilitate timely graduation. Under advisement students may complete 12 units of coursework in a single foreign language, an approved study abroad program, partial completion of a second major, minor, or certificate program in a related area of study. Related areas include Museum Studies, Design and Industry, Cinema, Music and Dance, Theatre, and Business. Requirements vary for each of the four Art concentrations (Studio, Art History, Art Education, and Studio/Art History) and students are strongly encouraged to work closely with their major advisor toward completion of this requirement.
Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
5 Major Studio Requirement (Three Total)
ART 210 Introduction to Digital Media Arts (3 units)
ART 222 Introduction to Textile Art (3 units)
ART 231 Drawing 1 (3 units)
ART 235 Printmaking 1 (3 units)
ART 240 Introduction to Contemporary Sculpture (3 units)
ART 245 Ceramics 1 (3 units)
ART 260 Photography 1 (3 units)
Bachelor of Arts in Art: Concentration in Art Education – ARTS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Studio Arts. Fifteen units in the major (three lower division studio courses, two lower division art history courses) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II</td>
<td>Art Production: Studio, Art History, Art</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II</td>
<td>A4</td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>Writing About Art - GWAR</td>
<td></td>
</tr>
<tr>
<td>U.S. History (p. 74)</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met in transfer</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History – non-European</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Art Production: Studio, Art History, Art</td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>Art Production: Studio, Art History, Art</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td>Art Production: Studio, Art History, Art</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History – 20th-21st Century</td>
<td>Art Production: Studio, Art History, Art</td>
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</tr>
<tr>
<td>Major Upper Division Studio</td>
<td>Art Production: Studio, Art History, Art</td>
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<tr>
<td>University Elective</td>
<td>Art Production: Studio, Art History, Art</td>
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<tr>
<td>Units</td>
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<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 509</td>
<td>Art Production: Studio, Art History, Art</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>Art Production: Studio, Art History, Art</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio (designate one as pre-capstone on advisement) – Take Two</td>
<td>Art Production: Studio, Art History, Art</td>
<td>6</td>
</tr>
<tr>
<td>University Electives</td>
<td>Art Production: Studio, Art History, Art</td>
<td>5</td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>Art Production: Studio, Art History, Art</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio (designate one as capstone on advisement) – Take Three</td>
<td>Art Production: Studio, Art History, Art</td>
<td>9</td>
</tr>
<tr>
<td>University Elective</td>
<td>Art Production: Studio, Art History, Art</td>
<td>3</td>
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<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
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<td>60</td>
</tr>
</tbody>
</table>

1 Capstone courses include all 600-level courses and some 500-level courses on advisement. Consult with your department advisor.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): U.S. History, U.S. Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C, and D (9 units)
- Students entering the major with the AA-T in Studio Arts are not required to fulfill SF State Studies requirements
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units
Art (Art Education) Major: 31 Units
Fifteen units met in transfer: three lower division studio courses, two lower division art history courses

• Upper Division Art History (6 units): one course in 20\textsuperscript{th}/21\textsuperscript{st} century and one in non-European art
• Upper Division Studio Art (21 units) includes:
  • EDUC 450 (3 units) – required for students in this concentration.
  • 18 units in one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.
  • Capstone: see footnote 1.

• Art Productions (1 unit): ART 509
• Graduation Writing Assessment Requirement (3 units): ART 400GW

University Electives: 11 or More Units
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major.
Bachelor of Arts in Art: Concentration in Art History

The Bachelor of Arts in Art History gives students the opportunity to learn about the visual cultures of the past and present around the globe. The 36 unit degree offers a series of increasingly focused courses—200 level survey courses, more specialized 300 and 400 level lecture courses, 500 level Advanced Topics and the 600 level senior capstone seminar—in which students learn how to analyze and interpret visual art within diverse historical, social, political, and cultural contexts. The program takes advantage of the Bay Area's rich cultural resources, galleries, and museums. Students are encouraged to gain hands-on experience and practical knowledge of the field through an internship. The art history major prepares students for a wide range of careers, including administrative or curatorial positions in museums, galleries, and auction houses, writing editorial positions, or for graduate school in art history, museum/curatorial studies, or conservation.

Program Learning Outcomes

Upon completion of the B.A. in Art with a Concentration in Art History, students will:

1. Gain breadth and depth of knowledge of art history globally: identify major artists, works, movements; define key terms, concepts, and theories; and understand diverse historical, social, political, cultural, and ideological perspectives.

2. Demonstrate skills in critical thinking, formal analysis, and visual literacy to interpret and evaluate the meaning of art and visual culture.

3. Gain verbal expression and oral presentation skills in both informal discussion and formal contexts.

4. Become proficient in writing and research skills in both informal discussion and formal contexts.

5. Understand and apply art historical methodology and theoretical models.

6. Show evidence of curiosity, risk-taking, experimentation, problem-solving, collaboration, and compassion in class discussion, small group work, and research/writing.

7. Understand the ethical dimension of artistic practice and scholarship within a global context and in relationship to the dynamics of power—including those of class, gender, race, and geopolitics—as expressed through visual, spatial, institutional, and ideological practices.

8. Gain a basic knowledge and understanding of artistic practice and process, and be able to draw on such knowledge in the interpretation of works of art, as well as to enrich their research and scholarly process.

Admission

At the time of admission to the University, no special permission, application or portfolio review is required to declare the art history concentration within the art major. Juniors or seniors who have declared in another major, but wish to change their major to art with a concentration in art history must:

Complete two courses from the list below with grades of C or higher:

<table>
<thead>
<tr>
<th>Art History</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
</tbody>
</table>

| ART/HUM 205 | Asian Art History | 3 |

- Proof of consultation with an art advisor
- For students transferring from other institutions, a minimum of 12 units in residence is required.

Students are required to declare a concentration by their junior year and to discuss their choice with an advisor in that area.

Advising

Students are strongly encouraged to consult with a major advisor on a regular basis as they advance through the program. A list of departmental advisors and contact information can be found on the School’s website: art.sfsu.edu/pages/academic-advising (http://art.sfsu.edu/pages/academic-advising).

Students are also advised to consult with the University’s Advising Center for information about General Education and other University requirements, as well as the Student Achievement and Resource Center in the College of Liberal & Creative Arts: lca.sfsu.edu/academics/student-achievement-and-resource-center (http://lca.sfsu.edu/academics/student-achievement-and-resource-center).

Bachelor of Arts in Art: Concentration in Art History — 36 Units

Lower Division Courses (9 units)

Art History

Select two of the following:

- ART 201 Western Art History I
- ART 202 Western Art History II
- ART/HUM 205 Asian Art History

<table>
<thead>
<tr>
<th>Studio Art</th>
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<tbody>
<tr>
<td>ART 210</td>
<td>Introduction to Digital Media Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 222</td>
<td>Introduction to Textile Art</td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Drawing</td>
<td></td>
</tr>
<tr>
<td>ART 235</td>
<td>Printmaking</td>
<td></td>
</tr>
<tr>
<td>ART 240</td>
<td>Introduction to Contemporary Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 245</td>
<td>Ceramics</td>
<td></td>
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<tr>
<td>ART 260</td>
<td>Photography</td>
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</tbody>
</table>

Before advancing to the 300 level or higher courses or declaring a concentration, all majors must have completed the University’s lower division requirements and the lower division courses for the major, or equivalent. Change of major students must also have proof of art advisor consultation.

Upper Division 300–400 Level Art History Lectures (12 units)

Select at least one course from Groups A, B, and C.

<table>
<thead>
<tr>
<th>Group A: Pre-20th Century</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 401/CLAR 420</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 402/CLAR 425</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
</tbody>
</table>
ART 403/ SXS 405 Queer Art History 3
ART/HUM 405 Art, Literature, and Power in the Renaissance 3
ART 406 Renaissance Art 3
ART 418 Art History, Ancient to 19th Century: Special Areas 3

Group B: 20th–21st Century
ART 306 Modern and Contemporary Art in a Global Context: 1945-Present 3
ART 419 Art History, 20th and 21st Century: Special Areas 3

Group C: Global Perspectives
ART 416 Contemporary Asian Art 3
ART 417 The Art and Architecture of Islam 3
ART 421 Global Perspectives in Art History: Special Areas 3

Graduate Writing Assessment Requirement (3 units)
ART 400GW Writing About Art - GWAR 3

500 Level Art History (3 units)
ART 516 Advanced Topics in Art History 3

Art History Elective (3 units)
One additional 300–600 level art history course.

Internship (3 units)
Select one of the following:
ART 619 Exhibition Design 3
ART 699 Independent Study 3

Senior Capstone Seminar (3 units)
ART 602 Art History Seminar 3

Complementary Studies
All candidates for the Bachelor of Arts degree in Art must complete 12 units of complementary studies from courses bearing a prefix other than ART, and not cross-listed with ART.

Students may satisfy this requirement in a variety of ways designed to facilitate timely graduation. Under advisement students may complete one of the following:

- 12 units of coursework in a single foreign language,
- Museum Studies Minor
- an approved study abroad program,
- partial completion of a second major, minor, or
- 12 units of coursework in a related area of study.

Students are strongly encouraged to work closely with their major advisor toward completion of this requirement.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and SF State units can best be applied to this requirement to ensure degree completion within 60 units.

Note: Students who complete two majors, or a major and a minor, automatically complete the complementary studies requirement.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
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<td>C3</td>
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<tr>
<td>Social Sciences: Literature</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
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<tr>
<td>Physical and/or Life Science</td>
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<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3
Environmental Sustainability (ES) | LD or UD | 3
Global Perspectives (GP) | LD or UD | 3
Social Justice (SJ) | LD or UD | 3

Note: LD = Lower Division; UD = Upper Division.
First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 637)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Art History. This roadmap opens in a new tab. (p. 640)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Art History
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government

- a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AIEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.
Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Art: Concentration in Art History Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 36

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major Studio Requirement ³</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)  or Written English Communication (A2) Stretch II</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following not already completed:</td>
<td></td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied  or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁵</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁵</td>
<td>3-4</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td></td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁴</td>
<td>6</td>
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<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Art History Lecture – Select one from Group A ⁶</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division Art History Lecture – Select one from Group B ⁶</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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<td></td>
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<tr>
<td></td>
<td>Upper Division Art History Lecture – Select one from Group C ⁶</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Art History Lecture – Select one from Group A, B, or C ⁶</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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1. GE Area A: Oral Communication (A1) or Critical Thinking (A3)
2. GE Area A: Written English Communication (A2)
3. Major Studio Requirement
4. Complementary Studies or SF State Studies or University Elective
5. GE Area B: Life Science (B2) and Laboratory Science (B3)
6. GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective

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637
<table>
<thead>
<tr>
<th>Courses</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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</tr>
<tr>
<td>Seventh Semester</td>
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</tr>
<tr>
<td>ART 516</td>
<td>3</td>
</tr>
<tr>
<td>Art History Elective: Select One 300–600 Level Art History Course</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>9</td>
</tr>
<tr>
<td>Eighth Semester</td>
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</tr>
<tr>
<td>ART 602</td>
<td>3</td>
</tr>
<tr>
<td>ART 619 or ART 699</td>
<td>3</td>
</tr>
<tr>
<td>Exhibition Design or Independent Study</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>Total Units</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Major Studio Requirement**
   - ART 210 Introduction to Digital Media Arts (3 units)
   - ART 222 Introduction to Textile Art (3 units)
   - ART 231 Drawing 1 (3 units)
   - ART 235 Printmaking 1 (3 units)
   - ART 240 Introduction to Contemporary Sculpture (3 units)
   - ART 245 Ceramics 1 (3 units)
   - ART 260 Photography 1 (3 units)

4. **Complementary Studies**
   - All candidates for the Bachelor of Arts degree in Art must complete 12 units of complementary studies from courses bearing a prefix other than ART, and not cross-listed with ART.
   - Students may satisfy this requirement in a variety of ways designed to facilitate timely graduation. Under advisement students may complete one of the following:
     - 12 units of coursework in a single foreign language,
     - Museum Studies Minor
     - an approved study abroad program,
     - partial completion of a second major, minor, or
     - 12 units of coursework in a related area of study.
   - Students are strongly encouraged to work closely with their major advisor toward completion of this requirement.
   - Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and SF State units can best be applied to this requirement to ensure degree completion within 60 units.

5. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Upper Division 300–400 Level Art History Lectures (12 units)

Group A
ART 401/CLAR 420 Greek Art and Archaeology (3 units)
ART 402/CLAR 425 Roman Art and Archaeology (3 units)
ART 403/SXS 405 Queer Art History (3 units)
ART 405/HUM 405 Art, Literature, and Power in the Renaissance (3 units)
ART 406 Renaissance Art (3 units)
ART 418 Art History, Ancient to 19th Century: Special Areas (3 units)

Group B
ART 306 Modern and Contemporary Art in a Global Context: 1945-Present (3 units)
ART 419 Art History, 20th and 21st Century: Special Areas (3 units)

Group C
ART 416 Contemporary Asian Art (3 units)
ART 417 The Art and Architecture of Islam (3 units)
ART 421 Global Perspectives in Art History: Special Areas (3 units)
# Bachelor of Arts in Art: Concentration in Art History – ARTH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Art History. Nine units in the major (one lower division studio course, two lower division art history courses) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>Major Upper Division Art History – Group A – Pre-20th Century (from the list below)</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
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</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td></td>
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<tr>
<td>University Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 306 or ART 419</td>
<td>Modern and Contemporary Art in a Global Context: 1945-Present or Art History, 20th and 21st Century: Special Areas</td>
<td>3</td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Elective (300–600 level)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 416 or ART 417 or ART 421</td>
<td>Contemporary Asian Art or The Art and Architecture of Islam or Global Perspectives in Art History: Special Areas</td>
<td>3</td>
</tr>
<tr>
<td>ART 516</td>
<td>Advanced Topics in Art History</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Electives – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 602</td>
<td>Art History Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ART 619 or ART 699</td>
<td>Exhibition Design or Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History – Group A, B, or C</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
• American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
• Upper division GE, areas B, C, and D (9 units)
• Students entering the major with the AA-T in Art History are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Art (Art History) Major: 30 Units
Lower division requirements satisfied in transfer – six units of art history and three units of studio arts.

• Graduation Writing Assessment Requirement (3 units): ART 400GW
• Upper Division Art History (12 units): 300–400 level, including at least one course from Groups A, B, and C.
• Advanced Topics in Art History (3 units)
• Elective (3 units): one additional 300–600 level art history course selected by student
• Internship (3 units)
• Capstone (3 units)

University Electives: Four or More Units
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State – some courses may meet more than one requirement, e.g. both in UD GE and the major.

Upper Division 300–400 Level Art History Lectures
Group A

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 401/CLAR 420</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 402/CLAR 425</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 403/SXS 405</td>
<td>Queer Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART/HUM 405</td>
<td>Art, Literature, and Power in the Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ART 406</td>
<td>Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 418</td>
<td>Art History, Ancient to 19th Century: Special Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

Group B

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 306</td>
<td>Modern and Contemporary Art in a Global Context: 1945-Present</td>
<td>3</td>
</tr>
<tr>
<td>ART 419</td>
<td>Art History, 20th and 21st Century: Special Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

Group C

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 416</td>
<td>Contemporary Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 417</td>
<td>The Art and Architecture of Islam</td>
<td>3</td>
</tr>
<tr>
<td>ART 421</td>
<td>Global Perspectives in Art History: Special Areas</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Arts in Art: Concentration in Art History and Studio Art

Admission
At the time of admission to the University, no special permission, application or portfolio review is required to declare the art major. Juniors or seniors who have declared in another major, but wish to change their major to art must:

Complete four courses with a grade of C or higher and two courses from each category.

Art History
- ART 201 Western Art History I 3
- ART 202 Western Art History II 3
- ART/HUM 205 Asian Art History 3

Studio
- ART 210 Introduction to Digital Media Arts 3
- ART 222 Introduction to Textile Art 3
- ART 231 Drawing 1 3
- ART 235 Printmaking 1 3
- ART 240 Introduction to Contemporary Sculpture 3
- ART 245 Ceramics 1 3
- ART 260 Photography 1 3

- Proof of consultation with an art advisor
- For students transferring from other institutions, a minimum of 12 units in residence is required.

Students are required to decide on a concentration by their junior year, and to discuss their choice with an advisor in that area. Since some areas are very crowded, students transferring at an advanced level from other institutions should contact an advisor in their proposed concentration upon application for admission to the University. The concentration programs may be structured to fit individual needs after conferring with an advisor and obtaining the advisor’s approval.

Concentrations:
- The concentration in Art Education explores the place of the visual arts in elementary and secondary education, and in general human development.
- The concentration in Art History examines the history of visual form in relation to the values, beliefs, and institutions of specific cultures.
- The concentration in Studio Art provides students with the framework to develop their body of work through a variety of studio experiences supported by knowledge of past and contemporary art making practices.
- The concentration in Art History and Studio Art is available for students with combined interests in studio and art history. The concentration consists of a planned combination of courses in both areas, approved in advance by advisors in art history and studio.

Students should be aware that art practice is time-consuming and expensive. Instructional Materials Fees are required for most studio courses, and students may find themselves spending additional sums of money on their projects.

Studio practice courses require hands-on practice and experience; this limits the number of students who can enroll in such courses.

Studio Areas: Ceramics, Digital Media & Emerging Technology, Painting and Drawing, Printmaking, Photography, Sculpture, and Textiles
Each studio area is structured to provide a similar sequence of development in the medium. Lower division courses provide technical foundations and introduce students to upper division topics in the area of study; intermediate courses extend and deepen skills while providing opportunities for students to engage with conceptual and critical issues; and advanced courses help students develop a focused body of work with awareness of the historical and contemporary concerns of art practice more broadly.

Advising
Students are strongly encouraged to consult with a major advisor on a regular basis as they advance through the program. A list of departmental advisors and contact information can be found on the School’s website: http://art.sfsu.edu/pages/academic-advising.

Students are also advised to consult with the University’s Advising Center for information about General Education and other University requirements, as well as the Student Achievement and Resource Center in the College of Liberal & Creative Arts: http://lca.sfsu.edu/academics/student-achievement-and-resource-center.

General Education Requirements Met in the Art Major:
The requirement below is deemed “met in the major” upon completion of the courses listed (even though the courses are not approved for GE). This is true whether or not the student completes the major.

- Area C1 (Arts) is satisfied upon completion of both ART 201 and ART 205.

Bachelor of Arts in Art: Concentration in Art History and Studio Art — 46 units

Lower Division Courses (12 units)

Art History
Select two of the following:
- ART 201 Western Art History I 3
- ART 202 Western Art History II 3
- ART/HUM 205 Asian Art History 3

Studio Art
Select two from the following:
- ART 210 Introduction to Digital Media Arts 3
- ART 222 Introduction to Textile Art 3
- ART 231 Drawing 1 3
- ART 235 Printmaking 1 3
- ART 240 Introduction to Contemporary Sculpture 3
- ART 245 Ceramics 1 3
- ART 260 Photography 1 3
Before advancing to the 300-level or higher courses or declaring a concentration, all majors must have completed the University's lower division requirements and the lower division courses for the major, or equivalent. Change of major students must also have proof of art advisor consultation.

To declare a concentration in art history and studio art, the student must consult advisors in the appropriate areas and draft a contractual proposed course of study on the Concentration Advising Form. The program must be approved by the advisors and by the School of Art director in advance. Copies of the form are retained by students and their advisors.

**Upper Division Art History (12 units)**
(Choose at least one 20th/21st century topic)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 303</td>
<td>The Artist in the 20th-21st Centuries: Cultures in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Collision--Cultures in Fusion</td>
<td></td>
</tr>
<tr>
<td>ART 306</td>
<td>Modern and Contemporary Art in a Global Context: 1945-</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Present</td>
<td></td>
</tr>
<tr>
<td>ART 403/</td>
<td>Queer Art History</td>
<td>3</td>
</tr>
<tr>
<td>SXS 405</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 501</td>
<td>Western Art: Special Areas</td>
<td>3</td>
</tr>
<tr>
<td>ART 502</td>
<td>Asian Art: Special Areas</td>
<td>3</td>
</tr>
</tbody>
</table>

**Upper Division Studio Art (15 units)**
Choose one or two studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.

**Capstone (3 units)**
Capstone Studio Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 602</td>
<td>Art History Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Art Productions (1 unit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 509</td>
<td>Art Productions: Studio, Art History, Art Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**Graduate Writing Assessment Requirement (3 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Environmental Sustainability (ES)  | LD or UD  | 3  
Global Perspectives (GP)  | LD or UD  | 3  
Social Justice (SJ)  | LD or UD  | 3  

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 646)

Transfer Student Roadmap (2 Year)
For students with an A.A-T in Studio Arts or Art History. This roadmap opens in a new tab. (p. 648)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Art History or Studio Arts
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Art: Concentration in Art History and Studio Art Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 43

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major History Requirement (6 Units Total) – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td></td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td></td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) 2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total First Semester Units</th>
<th></th>
<th>15</th>
</tr>
</thead>
</table>

| **Second Semester**       |                                            |       |
| Major Studio Requirement – Take One 3 |                             | 3     |
| GE Area A: Oral Communication (A1) or Critical Thinking (A3) | 3     |
| GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II | 3     |
| GE Area D: Social Sciences (D1) | 3     |
| Complementary Studies or SF State Studies or University Elective 4 | 3     |

<table>
<thead>
<tr>
<th>Total Second Semester Units</th>
<th></th>
<th>15</th>
</tr>
</thead>
</table>

| **Third Semester**          |                                            |       |
| Major History Requirement (6 Units Total) – Take One |                             | 3     |
| ART 201                    | Western Art History I                       |       |
| ART 202                    | Western Art History II                      |       |
| ART 205                    | Asian Art History                           |       |
| GE Area A: Written English Communication II (A4) if not already satisfied or Complementary Studies or SF State Studies or University Elective 4 | 3     |
| GE Area B: Life Science (B2) and Laboratory Science (B3) 5 | 3-4   |
| GE Area C: Humanities: Literature (C3) | 3     |
| Complementary Studies or SF State Studies or University Elective 4 | 3     |

<table>
<thead>
<tr>
<th>Total Third Semester Units</th>
<th></th>
<th>15-16</th>
</tr>
</thead>
</table>

| **Fourth Semester**       |                                            |       |
| Major Studio Requirement – Take One 3 |                             | 3     |
| GE Area B: Physical Science (B1) and Laboratory Science (B3) 5 | 3-4   |
| GE Area C: Arts (C1) or Humanities (C2) | 3     |
| GE Area D: U.S. History (D2) or U.S. and California Government (D3) | 3     |
| Complementary Studies or SF State Studies or University Elective 4 | 3     |

<table>
<thead>
<tr>
<th>Total Fourth Semester Units</th>
<th></th>
<th>15-16</th>
</tr>
</thead>
</table>

| **Fifth Semester**          |                                            |       |
| ART 400GW                  | Writing About Art - GWAR                   | 3     |
| Upper Division Art History (12 units total) – Take One 6 | 3     |
| Upper Division Studio Art (15 units total) 7 | 3     |
| GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) | 3     |
| SF State Studies or University Elective | 3     |

<table>
<thead>
<tr>
<th>Total Fifth Semester Units</th>
<th></th>
<th>15</th>
</tr>
</thead>
</table>

| **Sixth Semester**        |                                            |       |
| Upper Division Art History (12 units total) – Take One 6 | 3     |
| Upper Division Studio Art (15 units total) – Take Two 7 | 6     |

| Total Sixth Semester Units |                                               | 6     |
### Bachelor of Arts in Art: Concentration in Art History and Studio Art Roadmap

#### San Francisco State University Bulletin 2017-2018

| GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | 3 |
| Complementary Studies or SF State Studies or University Elective | 3 |
| **Units** | **15** |

#### Seventh Semester

| ART 602 Art History Seminar | 3 |
| or Capstone Studio Course | |
| Upper Division Art History (12 units total) – Take One | 3 |
| Upper Division Studio Art (15 units total) – Take One | 3 |
| Complementary Studies or SF State Studies or University Elective – Take Two | 6 |
| **Units** | **15** |

#### Eighth Semester

| ART 509 Art Productions: Studio, Art History, Art Education | 1 |
| Upper Division Art History (12 units total) – Take One | 3 |
| GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course) | 3 |
| Complementary Studies or SF State Studies or University Elective – Take Three | 4 |
| **Units** | **15** |

**Total Units**: 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Major Studio Requirements (Two Total)**
   - ART 210 Introduction to Digital Media Arts (3 units)
   - ART 222 Introduction to Textile Art (3 units)
   - ART 231 Drawing 1 (3 units)
   - ART 235 Printmaking 1 (3 units)
   - ART 240 Introduction to Contemporary Sculpture (3 units)
   - ART 245 Ceramics 1 (3 units)
   - ART 260 Photography 1 (3 units)

4. **Complimentary Studies**
   - All candidates for the Bachelor of Arts degree in Art must complete 12 units of complementary studies from courses bearing a prefix other than ART, and not cross-listed with ART.
   - Students may satisfy this requirement in a variety of ways designed to facilitate timely graduation. Under advisement students may complete 12 units of coursework in a single foreign language, an approved study abroad program, partial completion of a second major, minor, or certificate program in a related area of study. Related areas include Museum Studies, Design and Industry, Cinema, Music and Dance, Theatre, and Business. Requirements vary for each of the four Art concentrations (Studio, Art History, Art Education, and Studio/Art History) and students are strongly encouraged to work closely with their major advisor toward completion of this requirement.
   - Students who complete two majors, or a major and a minor, automatically complete the complementary studies requirement.

5. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

6. **Upper Division Art History (12 units total)**
   - Choose at least one 20th/21st century topic:
     - ART 303 The Artist in the 20th-21st Centuries: Cultures in Collision–Cultures in Fusion (3 units)
     - ART 306 Modern and Contemporary Art in a Global Context: 1945-Present (3 units)
     - ART 405/SXS 405 Queer Art History (3 units)
     - ART 501 Western Art: Special Areas (3 units)
     - ART 502 Asian Art: Special Areas (3 units)

7. Select one or two studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.
Bachelor of Arts in Art: Art History and Studio Art – ARTS or ARTH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Studio Arts or an AA-T in Art History. Twelve units in the major (two lower division studio courses, two lower division art history courses) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Art History – 20th–21st Century topic</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 509</td>
<td>Art Productions: Studio, Art History, Art Education</td>
<td>1</td>
</tr>
<tr>
<td>Major Upper Division Studio (designate as pre-capstone on advisement)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 602</td>
<td>Art History Seminar</td>
<td>3</td>
</tr>
<tr>
<td>or Capstone Studio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Studio – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

Potential capstone courses include all 600-level courses and 500-level studio courses on advisement. Students in this concentration have the option of designating ART 602: Art History Seminar as the capstone if preferred.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
• Upper division GE, areas B, C, and D (9 units)
• Students entering the major with the AA-T in Art History or Studio Arts are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Art major (Art History and Studio Art): 34 Units
Twelve units met in transfer: two lower division studio courses; two lower division art history courses.

• Upper Division Art History (12 units): including 20th/21st century topic
• Upper Division Studio (15 units): choose one or two studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.
• Capstone Experience (3 units): ART 602 or Upper Division Studio Capstone in 3rd or 4th semester. See Note 1 above.
• Art Productions (1 unit): ART 509
• Graduation Writing Assessment Requirement (3 units): ART 400GW

University Electives: Eight or More Units
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State – some courses may meet more than one requirement, e.g., both in UD GE and the major.
Bachelor of Arts in Art: Concentration in Studio Art

Admission
At the time of admission to the University, no special permission, application or portfolio review is required to declare the art major. Juniors or seniors who have declared in another major, but wish to change their major to art must:

Complete four courses (two from each category) with a grade of C or higher:

<table>
<thead>
<tr>
<th>Art History</th>
<th></th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td></td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART/HUM 205</td>
<td>Asian Art History</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio</th>
<th></th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 210</td>
<td>Introduction to Digital Media Arts</td>
<td></td>
</tr>
<tr>
<td>ART 222</td>
<td>Introduction to Textile Art</td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Drawing 1</td>
<td></td>
</tr>
<tr>
<td>ART 235</td>
<td>Printmaking 1</td>
<td></td>
</tr>
<tr>
<td>ART 240</td>
<td>Introduction to Contemporary Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 245</td>
<td>Ceramics 1</td>
<td></td>
</tr>
<tr>
<td>ART 260</td>
<td>Photography 1</td>
<td></td>
</tr>
</tbody>
</table>

• Proof of consultation with an art advisor
• For students transferring from other institutions, a minimum of 12 units in residence is required.

Students are required to decide on a concentration by their junior year, and to discuss their choice with an advisor in that area. Since some areas are very crowded, students transferring at an advanced level from other institutions should contact an advisor in their proposed concentration upon application for admission to the University. The concentration programs may be structured to fit individual needs after conferring with an advisor and obtaining the advisor's approval.

Concentrations:
• The concentration in Art Education explores the place of the visual arts in elementary and secondary education, and in general human development.
• The concentration in Art History examines the history of visual form in relation to the values, beliefs, and institutions of specific cultures.
• The concentration in Studio Art provides students with the framework to develop their own body of work through a variety of studio experiences supported by knowledge of past and contemporary art making practices.
• The concentration in Art History and Studio Art is available for students with combined interests in studio and art history. The concentration consists of a planned combination of courses in both areas, approved in advance by advisors in art history and studio.

Students should be aware that art practice is time-consuming and expensive. Instructional Materials Fees are required for most studio courses, and students may find themselves spending additional sums of money on their projects.

Studio practice courses require hands-on practice and experience; this limits the number of students who can enroll in such courses.

Studio Areas: Ceramics, Digital Media & Emerging Technology, Painting and Drawing, Printmaking, Photography, Sculpture, and Textiles
Each studio area is structured to provide a similar sequence of development in the medium. Lower division courses provide technical foundations and introduce students to upper division topics in the area of study; intermediate courses extend and deepen skills while providing opportunities for students to engage with conceptual and critical issues; and advanced courses help students develop a focused body of work with awareness of the historical and contemporary concerns of art practice more broadly.

Advising
Students are strongly encouraged to consult with a major advisor on a regular basis as they advance through the program. A list of departmental advisors and contact information can be found on the School's website: http://art.sfsu.edu/pages/academic-advising.

Students are also advised to consult with the University's Advising Center for information about General Education and other University requirements, as well as the Advising Resource Center in the College of Liberal & Creative Arts: http://ica.sfsu.edu/students#arc.

General Education Requirements Met in the Art Major:
The requirement below is deemed "met in the major" upon completion of the courses listed (even though the courses are not approved for GE). This is true whether or not the student completes the major.
• Area C1 (Arts) is satisfied upon completion of both ART 201 and ART 205.

Bachelor of Arts in Art: Concentration in Studio Art – 46 Units

Lower Division Courses (15 Units)

<table>
<thead>
<tr>
<th>Art History</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two from the following:</td>
</tr>
<tr>
<td>ART 201 Western Art History I</td>
</tr>
<tr>
<td>ART 202 Western Art History II</td>
</tr>
<tr>
<td>ART/HUM 205 Asian Art History</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Studio Art</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three from the following:</td>
</tr>
<tr>
<td>ART 210 Introduction to Digital Media Arts</td>
</tr>
<tr>
<td>ART 222 Introduction to Textile Art</td>
</tr>
<tr>
<td>ART 231 Drawing 1</td>
</tr>
<tr>
<td>ART 235 Printmaking 1</td>
</tr>
<tr>
<td>ART 240 Introduction to Contemporary Sculpture</td>
</tr>
<tr>
<td>ART 245 Ceramics 1</td>
</tr>
<tr>
<td>ART 260 Photography 1</td>
</tr>
</tbody>
</table>
Before advancing to the 300-level or higher courses or declaring a concentration, all majors must have completed the University’s lower division requirements and the lower division courses for the major, or equivalent. Change of major students must also have proof of art advisor consultation.

**Upper Division Art History (6 Units)**
Choose two upper division courses: one in 20th/21st-century art and one non-European art (unless non-European requirement was met in lower division art history).

**Upper Division Studio Art (21 Units)**
Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.

**Art Productions (1 Unit)**
ART 509 Art Productions: Studio, Art History, Art Education 1

**Graduate Writing Assessment Requirement (3 Units)**
ART 400GW Writing About Art - GWAR 3

**Complementary Studies**
All candidates for the Bachelor of Arts degree in Art must complete 12 units of complementary studies from courses bearing a prefix other than ART, and not cross-listed with ART.

Students may satisfy this requirement in a variety of ways designed to facilitate timely graduation. Under advisement students may complete 12 units of coursework in a single foreign language, an approved study abroad program, partial completion of a second major, minor, or certificate program in a related area of study. Related areas include Museum Studies, Design and Industry, Cinema, Music and Dance, Theatre, and Business. Requirements vary for each of the four Art concentrations (Studio; Art History, Art Education, and Studio/Art History) and students are strongly encouraged to work closely with their major advisor toward completion of this requirement.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can be best applied to this requirement in order to ensure degree completion within 60 units.

Note: Students who complete two majors, or a major and a minor, automatically complete the complementary studies requirement.

---

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
</tbody>
</table>

| Mathematics/Quantitative Reasoning | LD | 3  | B4  |
| Arts                                | LD | 3  | C1  |
| Arts or Humanities                  | LD | 3  | C1 or C2 |
| Humanities: Literature              | LD | 3  | C3  |
| Social Sciences                     | LD | 3  | D1  |
| Social Sciences: US History         | LD | 3  | D2  |
| Social Sciences: US & CA Government | LD | 3  | D3  |
| Lifelong Learning and Self-Development (LLD) | LD or UD | 3 | E  |
| Physical and/or Life Science        | UD | 3  | UD-B |
| Arts and/or Humanities              | UD | 3  | UD-C |
| Social Sciences                     | UD | 3  | UD-D |

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES)           | LD or UD | 3 |
| Global Perspectives (GP)                    | LD or UD | 3 |
| Social Justice (SJ)                         | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

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### First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 654)

### Transfer Student Roadmap (2 Year)
For students with an AA-T in **Art History**, this roadmap opens in a new tab. (p. 656)
For students with an AA-T in **Studio Arts**, this roadmap opens in a new tab. (p. 658)

**This degree program is an approved pathway ("similar" major) for students earning the ADT in Art History or Studio Arts**

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California
Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Art: Concentration in Studio Art Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 46

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Division Art History (6 Units Total)</td>
<td>Take One</td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td></td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td></td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Division Studio Art (9 Units Total)</td>
<td>Take One</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Division Art History (6 Units Total)</td>
<td>Take One</td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>Western Art History I Major History Requirement (6 Units Total) – Take One</td>
<td></td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td></td>
</tr>
<tr>
<td>ART 205</td>
<td>Asian Art History</td>
<td></td>
</tr>
<tr>
<td>Lower Division Art History (6 Units Total)</td>
<td>Take One</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Division Studio Art (9 Units Total)</td>
<td>Take One</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3.5-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Art History (6 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Studio Art (21 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division Art History (6 Units Total)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
### Bachelor of Arts in Art: Concentration in Studio Art Roadmap

#### Eighth Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Studio Art (21 Units Total) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### Seventh Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Studio Art (21 Units Total) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### Eighth Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 509: Art Productions: Studio, Art History, Art Education</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division Studio Art (21 Units Total) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>8</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>120-121</td>
</tr>
</tbody>
</table>

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Lower Division Studio Art**
   - ART 210 Introduction to Digital Media Arts (3 units)
   - ART 222 Introduction to Textile Art (3 units)
   - ART 231 Drawing 1 (3 units)
   - ART 235 Printmaking 1 (3 units)
   - ART 240 Introduction to Contemporary Sculpture (3 units)
   - ART 245 Ceramics 1 (3 units)
   - ART 260 Photography 1 (3 units)
4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
5. Select two upper division courses – one in 20th/21st century art and one non-European art (unless non-European requirement was met in lower division art history).
6. Choose one, two, or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year.
Bachelor of Arts in Art: Concentration in Studio Art – ARTH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Art History. Twelve to 15 units in the major (two to three lower division studio courses, two lower division art history courses) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Art History – non-European</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Second Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History – 20th-21st Century</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if 9 units LD Studio completed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Third Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 509</td>
<td>Art Productions: Studio, Art History, Art Education</td>
<td>1</td>
</tr>
<tr>
<td>Major Upper Division Studio (designate one as pre-capstone on advisement) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Fourth Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Studio (designate one as capstone on advisement) – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

1 Students who completed only six units of studio courses for the Art History ADT may substitute three units of upper division studio for a total of 24 units.

2 Capstone courses include all 600-level studio courses and some 500-level studio courses on advisement. Consult with a department advisor.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0-6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C, and D (9 units)
• Students entering the major with the AA-T in Studio Arts are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Art (Studio Art) Major: 31 Units
Twelve to 15 units met in transfer: two to three lower division studio courses, two lower division art history courses. Students who completed only six units of studio courses may substitute three units of upper division studio.

• Upper Division Art History (6 units): one course in 20th/21st century and one in non-European art
• Upper Division Studio Art (21–24 units): 24 units required if only six units of studio completed before transfer. Choose one, two or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year. See Note 2 above.
• Art Productions (1 unit): ART 509
• Graduation Writing Assessment Requirement (3 units): ART 400GW

University Electives: Eight or More Units
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major.
Bachelor of Arts in Art: Concentration in Studio Art – ARTS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Studio Arts. Fifteen units in the major (three lower division studio courses, two lower division art history courses) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
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</tr>
<tr>
<td>Major Upper Division Art History – non-European</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 400GW</td>
<td>Writing About Art - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Art History – 20th-21st Century</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if U.S. and California Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
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<td>ART 509</td>
<td>Art Productions: Studio, Art History, Art Education</td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio (designate one as pre-capstone on advisement) – Take Two (^1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Studio (designate one as capstone on advisement) – Take Three</td>
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<td></td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

\(^1\) Capstone courses include all 600-level studio courses and some 500-level studio courses on advisement. Consult with a department advisor.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): U.S. History, U.S. Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
- Students entering the major with the AA-T in Studio Arts are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.
Art (Studio Art) Major: 31 Units
Fifteen units met in transfer: three lower division studio courses, two lower division art history courses.

- Upper Division Art History (6 units): one course in 20th/21st century and one in non-European art
- Upper Division Studio Art (21 units): choose one, two or three studio areas to develop skills that will lead to developing a guided, personally directed body of work in a capstone course in the senior year. See Note.
- Art Productions (1 unit): ART 509
- Graduation Writing Assessment Requirement (3 units): ART 400GW

University Electives: 11 or More Units
Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., both in UD GE and the major.
Minor in Art
For students transferring from other institutions, a minimum of 12 units in residence is required.

Art Minor – 24 units
Art History (6 units)
3 units must be upper division

200-level Studio Courses (3 units)
Upper Division Electives (15 units)

Master of Fine Arts in Art
The three-year Master of Fine Arts in Art program is designed to provide professional competency for the student pursuing a career as an artist including working in a range of public roles. Students are accepted into the program in the following areas of emphasis: ceramics, conceptual and information arts, new practices, painting and drawing, photography, printmaking, sculpture, or textiles. While affiliation with a single emphasis is the norm, a broad approach to art-making and the development of a coherent, informed understanding of issues relevant to many forms of expression is encouraged throughout the program. The emphasis of new practices is available to students who work across media.

Studio related seminars and individually supervised tutorials form the core of the program. Special seminars in adjacent academic fields complement the studio focus of the program. Approximately two-thirds of the program is dedicated to studio and one-third to academically related courses. While all students can expect to experience a similar range of studio, seminar and tutorial classes, individual paths through the program are worked out through consultation with a graduate advisor/mentor.

Admission to Program
Applications for the M.F.A. program are accepted November 1 through January 15 for admission the following fall.

Applicants are required to file two separate applications, one to the University, and one to the Art Department. Applicants who do not complete both requirements cannot be considered for admission. Both the University’s Graduate Studies Division and the Art Department must accept applicants. Admission to the program is highly competitive and it is not possible to admit all fully qualified individuals.

1. An undergraduate art degree or equivalent preparatory degree, with three units of contemporary art history taken within the last five years. If the applicant does not complete this upon admission to the program, enrollment in a contemporary art history class during the first semester is required.
2. A 3.0 grade point average in the last 60 units completed in the undergraduate degree.

The M.F.A. admission application requirements are listed below. All application materials are submitted to the department electronically through an online application site. Application procedures and the M.F.A. admissions application can be found on the department’s website.

1. A completed Department of Art M.F.A. Admissions Application.
2. One copy of either official or unofficial transcripts from all institutions of higher learning attended. These must be included in your application package. (The department’s transcript requirements are in addition to the official transcripts required in the application to the University.) Note that transcripts will not be forwarded to the Art Department from the Graduate Admissions Office and vice versa.
3. One copy of your current resume/CV.
4. A two-page double-spaced Statement of Purpose describing your interests and background in art, reasons for pursuing the M.F.A. degree, and reasons for selecting San Francisco State University.
5. Three letters of recommendation should come from individuals qualified to testify to your capabilities and readiness to enter graduate study in art. Applicants provide email addresses for their references in the application. Referees receive an email with a link to upload a reference letter which is merged with the applicant’s file.
6. Creative work portfolio.

Up to 12 classified graduate units taken while completing a master’s degree in art at any accredited institution may be transferred towards credit for the M.F.A. degree. No more than 12 units (a maximum of 6 units in studio courses) of work taken in unclassified post-baccalaureate status may be transferred towards credit for the M.F.A. degree. All transfer of credit must be approved on a course-by-course basis by a departmental graduate advisor, graduate coordinator, and the Division of Graduate Studies.

A department review of each student’s progress is required at the end of each year in the program.

Written English Proficiency Requirement
All students in graduate programs at SF State must demonstrate Level One (entry) and Level Two (exit) writing proficiency in accordance with university, departmental, and or programmatic guidelines.

Level One
Level One is satisfied by the successful completion of ART 700.

Level Two
Level Two is satisfied by the successful completion of ART 705.

Completion of the Degree
In order to complete the M.F.A., students must satisfy all University and Department requirements. Department requirements are described in detail in the M.F.A. General Information brochure. In addition to satisfactory completion of the course of study, other requirements include satisfactory performance on yearly departmental reviews, a creative work exhibition and review, and creative work documentation. The department accepts transfer units on a course-by-course basis, only upon advisement, and in accordance with the limits established in the section entitled Transfer of Credit for Previous Graduate Work of the M.F.A. General Information brochure. If the creative work project is not complete in the final semester of the program, students must enroll in ART 899 in the semester they intend to graduate. Students are required to be enrolled during the semester in which they graduate.

Art (M.F.A.) – Minimum 60 Units

Studio Requirements (Minimum 42 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 704</td>
<td>Interdisciplinary Critique Seminar (taken each of six semesters at 3 units/semester, on advisement.)</td>
<td>18</td>
</tr>
<tr>
<td>ART 780</td>
<td>Art Processes and Practices: Visiting Artists and Scholars (taken twice a semester for three semesters)</td>
<td>6</td>
</tr>
<tr>
<td>ART 882</td>
<td>Tutorial in Studio (taken twice at 3 units/semester)</td>
<td>6</td>
</tr>
<tr>
<td>Studio Electives ¹</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>ART 890</td>
<td>Creative Work Research 3</td>
<td></td>
</tr>
<tr>
<td>ART 894</td>
<td>Creative Work Project 3</td>
<td></td>
</tr>
</tbody>
</table>

**Academic Requirements (Minimum 18 Units)**

<table>
<thead>
<tr>
<th>ART 700</th>
<th>Contemporary Art History: Practice, Theory, Criticism 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 705</td>
<td>Contemporary Art 3</td>
</tr>
<tr>
<td>ART 850</td>
<td>Directed Experience in Public Roles for Artists 3</td>
</tr>
<tr>
<td>Academic Electives ²</td>
<td>9</td>
</tr>
</tbody>
</table>

¹ Select two courses of 3 units each. May be taken in Art or in any other department, by advisement.

² 9 units by advisement may be taken in any department and may include additional academic art courses/seminars in theory, criticism, history, and directed experience, including ART 750.
BROADCAST AND ELECTRONIC COMMUNICATION ARTS

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Broadcast and Electronic Communication Arts
Creative Arts Building, Room 133
Phone: (415) 338-1787
Fax: (415) 338-1168
Website: http://beca.sfsu.edu
Chair: Vinay Shrivastava
Graduate Coordinator: Nancy “Sami” Reist

Mission
The Department of Broadcast and Electronic Communication Arts prepares students to create and critically evaluate content in the media arts. Our curriculum provides a balance of theory and practice while guiding students in the use of media to effectively communicate ideas that serve the evolving needs of society. Students go on to become innovative and ethical industry leaders who advance equity, social justice, and global citizenship.

Program Scope
The Department of Broadcast and Electronic Communication Arts (Beca) offers coursework leading to the Bachelor of Arts in Broadcast and Electronic Communication Arts, and the Master of Arts in Broadcast and Electronic Communication Arts. The curriculum is designed to provide extensive educational experience for those who intend to use the modern media of electronic communication to serve the artistic, cultural, educational, and informational needs of society. The program involves both theory and practice, and students are expected to work successfully in both types of courses and activities. Graduates of the program are prepared for work in the broadcasting and entertainment industries, in cable and on-line media, in video and audio production, and other areas related to electronic communication. Many graduates go on for graduate-level study in the field of electronic media.

The B.A. program includes a core drawn from classes in the history and structure of electronic media, media aesthetics, media research, audio and video production, media ethics and regulation, communication theory and criticism, and writing and performance for the electronic media. In addition, students may elect to pursue one of the nine areas of emphasis within the department: audio production and music recording, broadcast journalism, business aspects of the electronic media, educational and instructional media, communication theory and criticism, interactive media, radio production and programming, television/video production, and writing for the electronic media, or they can design an individualized area of emphasis in consultation with a department advisor.

The M.A. program reflects a comprehensive view of the communication discipline with an integration of theory and practice. Emphasis areas include media aesthetics, audio and video production, news and documentary, interactive media, writing, management, and communication theory and criticism.

Two important co-curricular activities are open to students of the department. KSFS, the campus radio station, is distributed on-line and in San Francisco on stereo cable. KSFS Media produces newscasts, dramas, interviews, musical performances, and other productions for distribution to the San Francisco community through cable television and via the Internet. Collegiate chapters of the Audio Engineering Society and College Students in Broadcasting (an affiliate of American Women in Radio and Television) provide opportunities for service and fellowship in the department and the professional community. The San Francisco Bay Area provides a wealth of media organizations that cooperate with the BECA department in a large, active internship program.

Centers and Institutes
The Institute of International Media Communication, housed in the Department, offers training and educational opportunities for television professionals from around the world through production workshops and seminars.

Facilities
The department’s instructional laboratories include professional grade production equipment, studios, and laboratories. Work completed by students in the BECA department is distribution ready for FCC broadcast guidelines and is in continuous distribution via terrestrial broadcast, cablecast (both radio and video), and Internet delivery. The student-run distribution hub for all BECA student productions is KSFSmedia.net (http://KSFSmedia.net)

Production facilities include three high-definition, multi-camera television studios, a radio station, two music recording studios, two advanced sound design for video studios and an array of field production equipment ranging from large-scale audio and multi-camera video simulcast equipment to professional quality audio and video single-camera and electronic news gathering equipment. The department also maintains over 75 computer workstations for audio and video production and post-production activity.

Career Outlook
Graduates of the department are to be found working in media organizations around the world and include some of the top names in broadcast journalism, entertainment television, radio, and audio and video production. The long term career outlook for graduates is excellent. Most seek work with radio and television stations, audio and video production companies, networks, cable television companies, and in corporate and institutional media departments.

Many graduates continue their education and pursue advanced degrees in communication or related fields. Students with the appropriate credential or graduate degrees in broadcast and electronic communication arts may teach in elementary and secondary schools, community colleges, or universities. A significant number of the department’s M.A. graduates have competed successfully for admission to the leading doctoral programs in the field of communication.

Mission Statement
The Department of Broadcast and Electronic Communication Arts prepares students to create and critically evaluate content in the media arts. Our curriculum provides a balance of theory and practice while guiding students in the use of media to effectively communicate ideas that serve the evolving needs of society. Students go on to become innovative and ethical industry leaders who advance equity, social justice, and global citizenship.
Program Learning Outcomes
1. Apply aesthetic theory to the practice of media production.
2. Use effective communication strategies, including media terminology as appropriate, in the creation and analysis of electronic and digital media content.
3. Integrate research related media theory into the conception and distribution of media content.
4. Conceptualize, design, and write stories for electronic and digital media.
5. Demonstrate proficiency in fundamental and advanced media production concepts and techniques.
6. Analyze and write about electronic and digital media’s role in and impact on culture and society.
8. Promote ethical standards and social justice in the creation and distribution of electronic and digital media.

Professors
Barsotti, Blosser, Gonzalez, Khani, Patterson, Reist, Shrivastava, Wolf, Zhang

Associate Professors
Camacho, Drennan, Ibrahim, Jacoby, M. Smith

Assistant Professors
Cha, Clemens, Guerra

Major
• Bachelor of Arts in Broadcast and Electronic Communication Arts (p. 663)

Masters
• Master of Arts in Broadcast and Electronic Communication Arts (p. 672)

Bachelor of Arts in Broadcast and Electronic Communication Arts

Application Filing Periods
Applications for admission to the Broadcast and Electronic Communication Arts (BECA) major are accepted by the University’s Office of Enrollment Services only during the application filing periods of October 1 to November 30 (for admission the following fall) and August 1 to September 30 (for admission the following spring). Applications received outside of these two filing periods will not be considered.

Change of Major Applicants
Undeclared majors and students enrolled in other disciplines at SF State who seek to change their major to Broadcast and Electronic Communication Arts must complete the nine units of prerequisite core classes with grades of C or better in each (BECA 200, BECA 300GW, BECA 340) before applying for a change of major. Note: Because of high demand, enrollment priority is given to BECA major students in the prerequisite core courses, as well as in many other departmental classes.

Prerequisite Core and Departmental Permission
All majors must complete the prerequisite core courses (BECA 200, BECA 390GW, BECA 340) with grades of C or better in each (C- is not acceptable). Completion of the core fulfills the departmental permission requirement, which is a condition for enrollment in the production sequence and many other advanced classes. If “department permission” is listed as a pre-requisite for a course in the course description, students must have completed BECA 200, BECA 300GW, and BECA 340 prior to enrollment in the course. The prerequisite core courses are normally taken during the sophomore year. Transfer students admitted to SF State as BECA majors should plan to complete the prerequisite core during the first semester of their junior year. A minimum of six of the nine units must be completed at SF State.

Writing Competence
Second year written composition (ENG 214 or equivalent) with a grade of C– or better is a prerequisite for BECA 300GW. BECA majors who successfully complete BECA 300GW will have satisfied the University Graduation Writing Assessment Requirement (GWAR). Students may improve their skills by taking composition courses or by completing writing tutorials.

Supervised and Independent Work Experience
The department encourages students to participate in independent production, internship, and supervised teaching experiences as a part of their program of study. Students may count a total of six units combined from the courses BECA 576, BECA 685, BECA 695, and BECA 699 toward satisfying major requirements. No more than four units of BECA 685 may count toward the degreemajor, and no more than six units from any other individual course may be counted toward the major.

Transfer Students
Students transferring to the BECA program from a California community college or other institution should strive to complete the SF State Lower Division Transfer Pattern. Transfer students are encouraged to complete the equivalent of ENG 214, BECA 200, BECA 230/BECA 231, and BECA 240/BECA 241 before matriculation to SF State. Many of the transfer equivalents to these courses are offered at California community colleges and can be verified via the Assist website (http://www.assist.org) (www.assist.org (http://www.assist.org)). Please contact a faculty advisor if your course is not listed. Up to nine units of courses from California community colleges may be directly applied to fulfilling BECA major requirements.

Mandatory Advising
Students in the major are encouraged to meet with a major advisor every semester, but are required to meet with a faculty advisor at the following points in their study:

1. Upon completion of the prerequisite core (BECA 200, BECA 300GW, and BECA 340). Students must have an advisor’s signature on the department’s proof of completion form to enroll in the production sequence or other advanced classes.
2. When the student has two full semesters remaining before graduation (typically 18 to 25 units left to complete in the major) the student must obtain the department’s graduation checklist/course equivalency form from beca.sfsu.edu (http://beca.sfsu.edu) or the BECA office. Faculty advisors will assist students in completing the checklist and will approve transfer course equivalencies. In addition,
the student will be asked to list on the form a proposed "itinerary" of required and elective courses to be taken in the last two semesters. This advising is meant to help the student graduate in a timely manner. The form must be signed by the advisor.

3. For approval of the application for graduation: The application must be signed by the advisor and the department chair.

The major includes a core requirement of 25 units and an additional requirement of 20 units of electives in an area of emphasis drawn from the broadcast and electronic communication arts curriculum. Enrollment in some departmental courses is restricted to BECA majors. Enrollment in courses requiring "departmental permission" is contingent upon satisfactory completion of nine units of prerequisite core courses.

Students in the major are encouraged to take additional course work in other disciplines related to the major.

Broadcast and Electronic Communication Arts (B.A.) — 45 Units

Prerequisites Core (9 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 200</td>
<td>Introduction to Electronic Communication</td>
<td>3</td>
</tr>
<tr>
<td>BECA 300GW</td>
<td>Broadcast and Electronic Communication Arts Research - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BECA 340</td>
<td>Media Aesthetics I</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Foundation Area (16 Units)

Units selected from the following areas. At least one course or course sequence must be taken in each of the four areas, plus one additional course from any of the four areas.

Audio and Video Production

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 230</td>
<td>Audio Production I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BECA 231</td>
<td>and Audio Laboratory</td>
<td></td>
</tr>
<tr>
<td>BECA 240</td>
<td>Video Production</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BECA 241</td>
<td>and Video Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Regulatory, Economic, and Ethical Perspectives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 324</td>
<td>Law and Regulation of the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 423</td>
<td>Economic Aspects of Broadcasting and Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 460</td>
<td>Introduction to News on Broadcast and Electronic Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Mass Communication Theory and Criticism

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 321</td>
<td>Critical Study of Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>BECA 390</td>
<td>The Age of Information</td>
<td>3</td>
</tr>
<tr>
<td>BECA 422</td>
<td>Social Aspects of Electronic Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Writing and Performance for Electronic Media

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 350</td>
<td>Media Performance I</td>
<td>3</td>
</tr>
<tr>
<td>BECA 370</td>
<td>Writing for the Electronic Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives in an Area of Emphasis (20 units)

Twenty units chosen from courses in BECA or other departments with approval of a BECA faculty advisor. Units from core courses not used to fulfill core requirements in any of the areas listed above may be counted as electives in an area of emphasis with the approval of a BECA faculty advisor.

Areas of Emphasis

Twenty units of elective courses in BECA or related areas are required for the major. These courses should be upper division and should be taken within one of the areas of emphasis listed below or in an individualized area of emphasis designed by a student in consultation with a department advisor.

The areas of emphasis are advisory and are meant to provide guidance for students so they develop extensive knowledge or expertise in one subject area. Students should meet regularly with a department advisor to decide which specific courses to take and how many to choose from the ones listed for a given emphasis.

Upon approval of a departmental advisor, units used in the 20 unit block of electives may include transfer units from another college or university, as well as units taken in other departments in this University. BECA department courses identified as core classes, but not used to fulfill core unit requirements, may be included in the 20 units of electives. Variable topic and experimental courses and senior seminars may also be included in the 20 units of electives.

Sample Emphasis Areas with Possible Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 330</td>
<td>Audio Production II</td>
<td>3</td>
</tr>
<tr>
<td>BECA 335</td>
<td>Audio for Video</td>
<td>3</td>
</tr>
<tr>
<td>BECA 430</td>
<td>Advanced Audio Production I</td>
<td>3</td>
</tr>
<tr>
<td>BECA 530</td>
<td>Advanced Audio Production II</td>
<td>3</td>
</tr>
<tr>
<td>BECA 533</td>
<td>Advanced Music Recording Workshop</td>
<td>3</td>
</tr>
<tr>
<td>BECA 535</td>
<td>Advanced Audio for Video</td>
<td>3</td>
</tr>
<tr>
<td>BECA 576</td>
<td>Internship in Broadcast and Electronic Communication Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

or other courses by advisement

Electronic Media Journalism

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 460</td>
<td>Introduction to News on Broadcast and Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 462</td>
<td>The Television Documentary in the United States</td>
<td>3</td>
</tr>
<tr>
<td>BECA 550</td>
<td>The Broadcast Interview</td>
<td>3</td>
</tr>
<tr>
<td>BECA 560</td>
<td>Radio and Television News Writing</td>
<td>3</td>
</tr>
<tr>
<td>BECA 561</td>
<td>News Reporting for Television</td>
<td>3</td>
</tr>
<tr>
<td>BECA 562</td>
<td>Television/Video Documentary Production</td>
<td>3</td>
</tr>
<tr>
<td>BECA 576</td>
<td>Internship in Broadcast and Electronic Communication Arts</td>
<td>3</td>
</tr>
<tr>
<td>BECA 660</td>
<td>Television Center News</td>
<td>4</td>
</tr>
<tr>
<td>BECA 665</td>
<td>News Reporting and Producing for Radio</td>
<td>3</td>
</tr>
</tbody>
</table>

or other courses by advisement

Business Aspects of Electronic Media

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 324</td>
<td>Law and Regulation of the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 423</td>
<td>Economic Aspects of Broadcasting and Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 428</td>
<td>Electronic Media Management</td>
<td>3</td>
</tr>
<tr>
<td>BECA 505</td>
<td>KSFS Radio II</td>
<td>3</td>
</tr>
<tr>
<td>BECA 576</td>
<td>Internship in Broadcast and Electronic Communication Arts</td>
<td>3</td>
</tr>
<tr>
<td>BECA 623</td>
<td>Ethics and Responsibility in the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 640</td>
<td>Television/Video Production Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

or other courses by advisement
Educational and Instructional Media

BECA 370 Writing for the Electronic Media 3
BECA 425 Television/Video Program Design 3
BECA 536 Creativity and Problem Solving in Electronic Media 3
BECA 546 Electronic Field Production I 3
BECA 576 Internship in Broadcast and Electronic Communication Arts 3
BECA 580 Media in Community Service 3
BECA 626 Corporate and Institutional Media Production 3
BECA 640 Television/Video Production Planning 3
or other courses by advisement

Electronic Media Theory and Criticism

BECA 321 Critical Study of Popular Culture 3
BECA 324 Law and Regulation of the Electronic Media 3
BECA 390 The Age of Information 3
BECA 422 Social Aspects of Electronic Media 3
BECA 460 Introduction to News on Broadcast and Electronic Media 3
BECA/WGS 485 Women and Media 3
BECA/ITEC 487 Children and Television 3
BECA 490 Television and Social Change 3
BECA 500 International Broadcasting 3
BECA 576 Internship in Broadcast and Electronic Communication Arts 3
BECA 590 New Electronic Communication Technologies 3
BECA 600 Senior Seminar 3
or other courses by advisement

Interactive Media

BECA 390 The Age of Information 3
BECA 547 Video Editing II 3
BECA 590 New Electronic Communication Technologies 3
BECA 593 Interactive Electronic Media Workshop 3
BECA 626 Corporate and Institutional Media Production 3
BECA 648 Digital Video Editing II 3
BECA 670 Writing for Interactive Electronic Media 3
BECA 693 Interactive Electronic Media Workshop II 3
or other courses by advisement

Radio Production and Programming

BECA 305 KSFS Radio I 3
BECA 310 Radio Production 3
BECA 435 Aesthetics of Sound 3
BECA 505 KSFS Radio II 3
BECA 510 Music Performance Recording and Production 3
BECA 576 Internship in Broadcast and Electronic Communication Arts 3
BECA 665 News Reporting and Producing for Radio 3
or other courses by advisement

Television/Video Production

BECA 370 Writing for the Electronic Media 3
BECA 415 Advanced Television Production Workshop 3
BECA 425 Television/Video Program Design 3
BECA 440 Media Aesthetics II 3
BECA 462 The Television Documentary in the United States 3
BECA 515 Television Center Crew 3
BECA 516 Television News Crew 3
BECA 545 Television Directing I 3
BECA 546 Electronic Field Production I 3
BECA 547 Video Editing II 3
BECA 562 Television/Video Documentary Production 3
BECA 576 Internship in Broadcast and Electronic Communication Arts 3
BECA 580 Media in Community Service 3
BECA 640 Television/Video Production Planning 3
BECA 646 Electronic Field Production II 3
BECA 647 Advanced Video Production 3
BECA 648 Digital Video Editing II 3
or other courses by advisement

Writing for the Electronic Media

BECA 370 Writing for the Electronic Media 3
BECA 324 Television/Video Program Design 3
BECA 462 The Television Documentary in the United States 3
BECA 470 Dramatic Writing for Television and Electronic Media 3
BECA 560 Radio and Television News Writing 3
BECA 561 News Reporting for Television 3
BECA 562 Television/Video Documentary Production 3
BECA 570 Writing for Electronic Media Genres 3
BECA 576 Internship in Broadcast and Electronic Communication Arts 3
BECA 670 Writing for Interactive Electronic Media 3
or other courses by advisement

Complementary Studies

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in BECA. These units must come from courses bearing a prefix other than BECA, and not cross-listed with BECA. BECA majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner:

1. 12 units in a single foreign language;
2. 12 units taken in an approved study abroad program (e.g., CSU Study Abroad);
3. 12 units taken as partial completion of a second major, minor or a certificate; or
4. 12 units in a related discipline.

With approval from a BECA advisor, up to six units of Complementary Studies may be used to count toward the major.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Transfer Student Roadmap

For students with an AS-T in Film, Television and Electronic Media. This roadmap opens in a new tab. (p. 670)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Film, Television and Electronic Media

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Broadcast and Electronic Communication Arts Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BECA 200</td>
<td>Introduction to Electronic Communication</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BECA 340</td>
<td>Media Aesthetics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BECA 300GW</td>
<td>Broadcast and Electronic Communication</td>
<td>3</td>
</tr>
<tr>
<td>Arts Research - GWAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Foundation Area – Audio and Video Production – Select One</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BECA 230</td>
<td>Audio Production I</td>
<td></td>
</tr>
<tr>
<td>&amp; BECA 231</td>
<td>and Audio Laboratory</td>
<td></td>
</tr>
<tr>
<td>BECA 240</td>
<td>Video Production</td>
<td></td>
</tr>
<tr>
<td>&amp; BECA 241</td>
<td>and Video Laboratory</td>
<td></td>
</tr>
<tr>
<td>Major Electives in an Area of Emphasis (20 units total)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Foundation Area – Mass Communication Theory and Criticism – Select One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BECA 321</td>
<td>Critical Study of Popular Culture</td>
<td></td>
</tr>
<tr>
<td>BECA 390</td>
<td>The Age of Information</td>
<td></td>
</tr>
<tr>
<td>BECA 422</td>
<td>Social Aspects of Electronic Media</td>
<td></td>
</tr>
<tr>
<td>Core Foundation Area – Regulatory, Economic, and Ethical Perspectives – Select One</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

668
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 324</td>
<td>Law and Regulation of the Electronic Media</td>
<td></td>
</tr>
<tr>
<td>BECA 423</td>
<td>Economic Aspects of Broadcasting and Electronic Media</td>
<td></td>
</tr>
<tr>
<td>BECA 460</td>
<td>Introduction to News on Broadcast and Electronic Media</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major Electives in an Area of Emphasis (20 units total) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Seventh Semester</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Foundation Area – Writing and Performance for Electronic Media – Select One</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BECA 350 or BECA 370</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Media Performance I or Writing for the Electronic Media</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major Electives in an Area of Emphasis (20 units total) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Eighth Semester</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Major Electives in an Area of Emphasis (20 units total) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Core Foundation Area – Select one from any area</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SF State Studies or University Elective</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>120-121</td>
</tr>
</tbody>
</table>

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3.

4. Bachelor of Arts students must complete at least twelve units of Complementary Studies outside of the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement. Students earning Bachelor of Music or Bachelor of Science degrees do not have to complete the Complementary Studies requirement. Details about Complementary Studies can be found in the Bulletin description for each B.A. degree. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. These students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

5. Units selected from the following areas. At least one course or course sequence must be taken in each of the four areas, plus one additional course from any of the four areas.

   Audio and Video Production:
   - BECA 230 & BECA 231 or BECA 240 & BECA 241
   - Regulatory, Economic, and Ethical Perspectives
   - BECA 324 or BECA 423 or BECA 460
   - Mass Communication Theory and Criticism
   - BECA 321 or BECA 390 or BECA 422
   - Writing and Performance for Electronic Media
   - BECA 350 or BECA 370
   - Include a culminating experience course from the following options: BECA 415, BECA 425, BECA 428, BECA 470, BECA 530, BECA 535, BECA 593, BECA 647, BECA 660

6. Chosen from courses in BECA or other departments with approval of a BECA faculty advisor – See Bulletin.
Bachelor of Arts in Broadcast and Electronic Communication Arts – FTVE Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Film, Television and Electronic Media. Six units in the major (BECA 200, BECA 230, BECA 231) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BECA 300GW</td>
<td>Broadcast and Electronic Communication Arts Research - GWAR ¹</td>
<td>3</td>
</tr>
<tr>
<td>BECA 340</td>
<td>Media Aesthetics I ¹</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BECA 240 &amp; BECA 241</td>
<td>Video Production and Video Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>If TV Studio Production course taken for AS-T, then take University Elective instead</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BECA 324</td>
<td>Law and Regulation of the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 423</td>
<td>Economic Aspects of Broadcasting and Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 460</td>
<td>Introduction to News on Broadcast and Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – select in consultation with an advisor – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>BECA 321 or BECA 390 or BECA 422</td>
<td>Critical Study of Popular Culture or The Age of Information or Social Aspects of Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – select in consultation with an advisor – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BECA 350 or BECA 370</td>
<td>Media Performance I or Writing for the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – select in consultation with an advisor - Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>
ENG 214 or equivalent is a prerequisite to BECA 300GW. Completion of BECA 200, BECA 300GW and BECA 340 with a grade of C or better is required for enrollment in the production sequence and many advanced BECA classes. Progress in the major and length of time for degree completion will be impacted if an ENG 214-equivalent course is not completed before transfer. Students who need to take ENG 214 will not be able to enroll in BECA 300GW, BECA 340, or other upper division BECA courses in the first semester, and are advised to focus on completion of upper division GE instead.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 6–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer.
  - Upper division GE, areas B, C and D (9 units): Check for UD GE courses that satisfy both Major and American Institutions requirements.

- Students entering this major with the AS-T in Film, Television, Video and Electronic Media are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**BECA Major: 35–39 Units**

BECA 200 and BECA 230–BECA 231 met in transfer; BECA 240–BECA 241 may have been completed.

- Prerequisites Core/GWAR (6 units)
- Core Foundation (9–13 units): Audio and Video Production may be complete if TV Studio Production course taken in AS-T. If so, select one course from each of the remaining three areas. If not, take four courses for the Core Foundation.
- Electives in an Area of Emphasis (20 units): Must be upper division courses; approval of BECA faculty advisor required.

**University Electives: Two or More Units**

Units depending on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., in both UD GE and the major.
Master of Arts in Broadcast and Electronic Communication Arts

Admission to Program
Graduate students are accepted twice a year, for fall and spring semesters. The graduate admission application to San Francisco State University is a two-part process. Part One is the university application submitted to the Division of Graduate Studies. Part Two is the academic department application submitted to the Graduate Coordinator for your intended degree program. You must submit Part One and Part Two of your graduate admission application simultaneously by the deadline to be considered for admission. Both applications must be received between November 1 and February 1 for the fall semester, and between September 1 and October 15 for the spring semester. Both University and departmental files must be complete by the last day of the application period (February 1 or October 15). Applicants for fall admission are notified of departmental recommendation regarding admissions in March. Applicants for spring admission are notified of departmental recommendation regarding admissions in mid-November. The official notice of admission status is forwarded to the applicant by the University’s Division of Graduate Studies.

Applicants must meet all University requirements for admission, which includes a bachelor's degree from a regionally accredited college or university with a GPA of 3.0 or better.

Part One:
1. Apply online through CSU Mentor for a Graduate Program (http://www.csumentor.edu/AdmissionApp/grad_apply.asp). The Office of Graduate Admissions no longer accepts paper applications to graduate programs.
2. Pay the $55.00 USD application fee. We recommend that you pay online by credit card at the moment you submit your application. If you selected the option to pay the application fee by check or money order, make the check payable to “San Francisco State University.”
3. Send all required documents noted on your online SF Gateway Portal “To Do List” to the Division of Graduate Studies:

Graduate Admissions
San Francisco State University
1600 Holloway Avenue, ADM 250
San Francisco, CA 94132

Part Two:
Applications to the department must include:
1. BECA department graduate application available through the department website (http://beca.sfsu.edu/content/graduate-forms)
2. Applicant’s statement of purpose in pursuing the M.A. degree
3. Three letters of recommendation, at least one of which should be from a former teacher
4. Transcripts of all previous college work
5. Current Graduate Record Examination (GRE) scores are encouraged, but not required. Scores must be submitted to both the University and the department. A minimum GRE Analytical Writing score of 4.5 is one method students may meet the department’s Level One writing requirement

Before applying to either the University or the department, send for descriptive materials about the program and details on how to apply. Write to:

Graduate Coordinator, BECA Department
San Francisco State University
1600 Holloway Avenue, CA 133
San Francisco, CA 94132

This information may also be obtained online at http://beca.sfsu.edu

Although undergraduate preparation in media or communication is desirable, students from other academic disciplines who have demonstrated an interest in the electronic media are encouraged to apply. Students may be required to take up to 14 units of undergraduate courses as prerequisites. All students must take BECA 200, BECA 340, and one introductory production sequence (either BECA 230 and BECA 231 or BECA 240 and BECA 241), or equivalents. Students who choose a creative project involving production as their culminating experience may be required to take both audio and video production (Beca 230 and BECA 231 plus BECA 240 and BECA 241). These prerequisites may not be used as part of the Advancement to Candidacy.

Students are admitted to the program in conditionally classified status. Students must advance to classified status by:
1. Completing or demonstrating knowledge of the content of the prerequisite courses;
2. Completing BECA 700 with a grade of B or better;
3. Demonstrating Level One Written English Proficiency (see below); and
4. Submitting the Advancement to Candidacy (ATC) form to the SF State Division of Graduate Studies.

Written English Proficiency Requirement
Each graduate student must demonstrate the ability to write standard American English correctly and effectively. To assure that each graduate student has the desired proficiency in written English, two distinct assessments are made:

Level One (Preadmission)
Level One writing is demonstrated with an Analytical Writing score on the GRE of 4.5 or higher. Students who fail to demonstrate Level One writing preadmission may be admitted conditionally but will be required to take a department-administered writing test during the first week of their first semester. If they fail to pass this writing test, they will be required to take remedial writing courses before enrolling in 700-level or 800-level courses other than BECA 700 and BECA 702. The remedial writing classes cannot be used on the ATC. This requirement may delay the student’s progress through the program.

Level Two
Advanced level of writing proficiency is demonstrated by successfully completing the master’s written comprehensive examination, the master’s thesis, or the creative project.

International Students
The department welcomes applications from international students. Many distinguished alumni of the program are working in media industries around the world. International students should note the special requirements that pertain to them presented on these pages.
Questions should be directed to the BECA graduate coordinator, the Office of International Programs or the Division of Graduate Studies.

Advancement to Candidacy
In order to advance to candidacy, applicants must be in classified graduate standing and have an approved ATC form on file.

Broadcast and Electronic Communication Arts (M.A.) — Minimum 30 units

Core Requirements (16 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 700</td>
<td>Introduction to Graduate Study (taken in first fall semester)</td>
<td>4</td>
</tr>
<tr>
<td>BECA 701</td>
<td>Formula and Creativity in the Public Arts</td>
<td>3</td>
</tr>
<tr>
<td>BECA 702</td>
<td>Ethics and Responsibility in the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>BECA 706</td>
<td>Seminar in Media Aesthetics and Production Theory</td>
<td>3</td>
</tr>
<tr>
<td>BECA 822</td>
<td>Seminar in Media and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Requirements (11 units)
Electives must be approved by the graduate advisor.

Culminating Experience (3 units)
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 894</td>
<td>Creative Work Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Written Comprehensive Examination

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 896</td>
<td>Readings for the Written Comprehensive Examination</td>
<td>3</td>
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</table>

Thesis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BECA 898</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Requires BECA 897 as a prerequisite. BECA 897 may be used for up to 3 units of elective credit in the ATC.

The minimum requirement for graduation is 30 units. Because of individual student background, needs, interests, and advisor recommendations, the graduate student may be required to complete more than 30 units.

Students must consult with an advisor before determining which one of three culminating experience options they will pursue.

Master’s Thesis

Students who pursue the master’s thesis option must complete a written master’s thesis, a scholarly document that reports on some kind of original research. The research builds upon theory, and addresses one or more research questions or tests one or more hypotheses. Research questions or hypotheses reflect a scope appropriate for M.A. level work. Research methods are selected for their appropriateness to the question or problem at hand.

Master’s Written Comprehensive Examination

Students who pursue the examination option must complete a written comprehensive examination while they are enrolled in BECA 896 and BECA 896EXM. The examination will be created by a committee that is appointed by the instructor of BECA 896. A candidate who fails the written comprehensive examination may re-take it once.

Master’s Creative Project

Students who pursue the creative project option must execute a project, the scope of which is defined by the student in collaboration with a committee of three faculty members, and prepare a written document to accompany the project. The project may take the form of a production created for the broadcast or electronic media, a script for such a production, or another type of product that employs the broadcast or electronic media. The accompanying document provides an introduction; a statement of the project’s significance, value, and objectives; a literature review; a description of the creative methodology employed; a discussion of the completed project; a conclusion; and a production appendix. The faculty may require additional coursework to demonstrate evidence of ability to complete a creative project.
CALIFORNIA STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

California Studies Program
Humanities Building, Room 410
Phone: (415) 338–1830
Coordinator: Peter Richardson

Program Scope
California Studies is a multi-disciplinary program whose purpose is to study the consensus and conflict, unity and diversity, and continuity and change that characterize the many cultures, social structures, and artistic and creative expressions, as well as the earth and geosciences, of past and present California.

Students pursuing this minor may draw upon the strengths of many departments offering courses on the various dimensions of California; in particular, Africana Studies, American Indian Studies, American Studies, Anthropology, Asian American Studies, Biology, Earth and Climate Sciences, Economics, English, Environmental Studies, Geography, History, Hospitality and Tourism Management, Humanities, Political Science, Latina/Latino Studies, and Recreation, Parks, and Tourism. Certain core courses are required to obtain the minor, with additional elective courses to be chosen by the student.

Each student should emerge from the minor with a grasp of California history and political processes, knowledge and appreciation of the rich diversity of California cultures, creative arts, and literatures, an informed view of California’s environmental richness and ecological relationships, and a continuing interest in the dynamic California landscape.

Affiliated Programs at SF State
Liberal Studies
The Liberal Studies major offers a pattern of courses that emphasize California studies. For details, see the Liberal Studies (p. 876) section of this Bulletin.

American Studies
The American Studies major offers the possibility of pursuing a California-focused elective program. For details, see the Bachelor of Arts in American Studies (p. 606) section of this Bulletin.

Career Outlook
The Minor in California Studies prepares students for regional and local application of their major fields of study to the immediate world in which they live, the state of California. A foundation in California studies is beneficial to those pursuing teaching credentials and careers in business, public policy, public administration, state government, and public history. The minor is also excellent preparation for those pursuing advanced degrees in the social sciences, humanities, earth sciences, or arts.

California Studies Minor – 21–23 units
California History (3 units)
HIST 450 History of California 3

California Artistic and Cultural Landscapes (3 units)
Select one of the following: 3

A U 302 Bay Area Culture
HTM 421 Food, Wine, and Culture in California
HUM 376 San Francisco
HUM 375 Biography of a City (topic course)
HUM 450/ AMST 410 California Culture

California Social and Ethnic Landscapes (3–4 units)
Select one of the following: 3

A U 302 Bay Area Culture
AA S 510 Asian Americans in California
AFRS 312 Kalifia: The Black Heritage of California
AIS 410 Perspectives of Native California Indians
ANTH 356 Archaeology of California
LTNS 315 Latina/os in California
LTNS 660 Latina/o Politics
PLSI 473 California Politics and Government
PLSI 475/ USP 485 San Francisco Political Issues

California Environmental Landscapes (3–4 units)
Select one of the following: 3

A U/GEOG 301 Bay Area Environments
BIOL 300 Nature Study
ERTH 320 Geology of California
ERTH 325 Geology of the National Parks
ERTH 360 California Weather Events
GEOG 552 Geography of California
GEOG/USP 651 San Francisco Bay Area Environmental Issues

Electives (9 units)
Select from at least two of the above categories.
CINEMA

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Cinema
Fine Arts Building, Room 245
Phone: (415) 338–1629
Fax: (415) 338–0906
Email: cinedep@sfusu.edu
Website: cinema.sfsu.edu (http://cinema.sfsu.edu)
Director: Britta Sjogren

Program Scope

The Cinema Department was founded during the political activism and artistic experimentation of the 1960s. In 2014, the department became the School of Cinema. Today, in an era of new technologies and new opportunities, the School continues to encourage and celebrate cinematic expressions that challenge social and artistic norms. Cinema faculty are committed to providing students with a liberal arts education focused on three intertwined values: creative expression, critical thinking, and social engagement.

Students in the Bachelor of Arts in Cinema program complete introductory courses in cinema history, theory, and production. They proceed to advanced classes across the field of cinema, including media and culture, animation, experimental film, documentary filmmaking, fiction filmmaking, and screenwriting.

The Master of Arts in Cinema Studies offers students the opportunity to pursue graduate research in cinema and media scholarship. We consider "cinema" to refer to all moving image media, from early films to emerging digital media forms. The M.A. program emphasizes not only the study of cinema history, theory, and criticism, but of all “cinematic” media and the theories related to them. The M.A. curriculum allows students considerable freedom to choose from a wide variety of course offerings, building toward the writing of a thesis that emphasizes focused research on a specific topic related to their interests, under the direction of a thesis advisor.

The Master of Fine Arts in Cinema emphasizes knowledge of cinematic traditions along with the development of individual creative vision grounded in professional proficiency in technical crafts. The program integrates new processes, aesthetics, and technologies and encourages the development of original modes of cinematic expression. Course work emphasizes documentary, experimental and fiction filmmaking. Students are encouraged to take courses in animation. Parallel course work in film and media theory, history and criticism are required in years one and two of the M.F.A. program.

The School website offers additional information: cinema.sfsu.edu (http://cinema.sfsu.edu).

Facilities

School of Cinema facilities include a 150-seat screening theatre, a 2500 square foot shooting stage, editing and post-production areas for both sprocket and digital media, sound recording and mixing studios with digital editing workstations, including a Foley stage. The School also houses an animation studio with film and computer workstations, three high-end computer labs, a media library, and the Bill Nichols Reading Room.

Career Outlook

Graduates of the Cinema programs go on to careers as independent filmmakers or as professionals working at the highest levels within the film and media industries — producers, directors, creative executives, cinematographers, editors, sound recordists and mixers, animators, and multimedia artists — including Oscar and Emmy winners. Many B.A. graduates continue to advanced studies in animation, filmmaking, media and culture, or screenwriting.

The M.A. prepares graduates to pursue doctoral study in cinema, media, and related areas, as well as work in various areas of film and media arts exhibition, management, and research.

The M.F.A. prepares graduates to work as independent filmmakers, to assume creative professional roles within the film industry, or to teach at the college or university level.

Professors
Bernardi, Jackson, Kerner, Kovacs, Lau, McBride, Shimizu, Sjogren, Snider

Associate Professors
Choe, Gorzycki, Hammett, Hoxter, Ridgway, Rutsky, Zhang

Assistant Professors
Boswell, Dunye, Symons

Full-time Lecturers
Jakattis, Moss

Major

• Bachelor of Arts in Cinema (p. 675)

Minors

• Minor in Animation (p. 697)
• Minor in Cinema (p. 697)

Masters

• Master of Arts in Cinema Studies (p. 697)
• Master of Fine Arts in Cinema (p. 698)

Bachelor of Arts in Cinema

Admission

At the time of admission to the University, all students may elect to be Cinema majors. No special permission, application or portfolio is required. Before advancing to courses at the 300 level or higher, however, all majors must:

• Complete the core courses with a grade of C or higher (CINE 200, CINE 202, CINE 204, CINE 211, and CINE 212, or equivalent courses).
• Complete the lower division General Education requirements at SF State or the equivalent at another institution.
Description of the Program
The School of Cinema is committed to a program of cinema studies and production as a common enterprise. For this reason, the 200-level core courses and the 300-level foundation courses are necessary prerequisites to advanced work in the major. Graduation Writing Assessment Requirement (GWAR) courses in cinema are an exception; if the necessary prerequisites have been completed, GWAR courses may be taken concurrently with core or foundation courses, provided the student is an upper-division Cinema major. The School of Cinema enforces the completion of the core courses before enrollment in all other courses. Additional required courses may be taken once 200-level core courses are completed, provided the student is an upper-division cinema major.

Students should be aware that filmmaking is time-consuming and expensive. Although course requirements seldom demand it, students often spend considerable sums of money on their film projects. Production courses require hands-on practice and experience; this necessarily limits the number of students enrolled in such courses.

Advising Process
Consultation with an advisor is required upon completion of the core courses, at which time the student should obtain a Cinema Undergraduate Advising Form (Blue Sheet) for future use. Students are strongly encouraged to consult with an advisor on a regular basis as they advance through the program.

A list of School of Cinema advisors and a schedule of their availability can be found on the School website.

Students are also advised to consult with the University’s Advising Center or the ARC (Advising Resource Center for the College of Liberal & Creative Arts in Humanities Building, Room 112) for information about General Education and other University requirements.

Cinema B.A. – 45 units
Core Courses (13 units)
Students must complete core courses with a grade of C or better.

- CINE 200 Introduction to Cinema Studies (3)
- CINE 202 Introduction to Filmmaking (3)
- CINE 204 Introduction to Filmmaking Laboratory (1)
- CINE 211 Film History I (3)
- CINE 212 Film History II (3)

Foundation and GWAR Courses (7 units)
Upon satisfactory completion of core courses, Cinema majors should enroll in the foundation and GWAR courses. Other 300-level courses may be taken concurrently unless specific course prerequisites apply.

- CINE 340 Critical Studies (3)
- CINE 341 Critical Studies Discussion Group (1)

Select one GWAR course from the following:
- CINE 303GW Writing About Cinema - GWAR
- CINE 342GW Documentary Film - GWAR
- CINE 346GW The Art of Short Film - GWAR
- CINE 402GW Arab Cinema - GWAR
- CINE 410GW Art and Film - GWAR

Required Upper Division Courses (9 units)
Select nine units from the following:

- CINE 304 Gender and Film (3)
- CINE 305 Film and the Holocaust (3)
- CINE 306 Chinese Documentary Film (3)
- CINE 308 Third Cinema (3)
- CINE 331 Hollywood Representation of Race and Ethnicity (3)
- CINE 332 Understanding the Representation and Narration of Sexuality in Cinema (3)
- CINE 342 Documentary Film (3)
- CINE 344 Film Genre (3)
- CINE 346 The Art of Short Film (3)
- CINE 365 History of Animation (3)
- CINE 372 Film Theory (3)
- CINE 373 Film and Society (3)
- CINE 375 U.S. Culture and Cinema of the 1950s (3)
- CINE 401 National/Regional Cinemas (3)
- CINE 402 Arab Cinema (3)
- CINE 407 History and Film (3)
- CINE 409 Latina/o Cinema (3)
- CINE 410 Art and Film (3)
- CINE 441 Signs of Aliens: Semiotics of Film and Popular Culture (3)
- CINE 502 Experiments in Cinematic Form (3)
- CINE 508 Film Authorship (3)
- CINE 540 Issues in Film Theory (3)
- CINE 541 Race, Sex, and Identity Online (3)
- CINE 610 Senior Critical Studies Seminar (3)

Electives (16 units)
Elect additional cinema courses to complete the total of 45 units required for the major.

- With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
- No more than seven units of advanced production units from the following courses may be taken in any one term unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class. CINE 430, CINE 442, CINE 454, CINE 456, CINE 466 CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 656, CINE 651.
- If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
- With a faculty advisor’s approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to six of those units may be in screenwriting and/or filmmaking/video production.
- A maximum of 18 units of online course work may be counted toward the major.
- A maximum of 12 units of independent study/internship courses may be counted toward the major.
A maximum of 9 CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.

**Complementary Studies**

Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. *(Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)*

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

Cinema majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Majors may, with the approval of a Cinema advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in related disciplines. Related disciplines typically include: anthropology, art, business, creative writing, design, journalism, literature, music, philosophy, television, and theater. The School of Cinema allows up to 12 upper-division units from cinema-related disciplines to count toward the major. Where upper-division complementary studies courses are related to cinema, they may, with the approval of a School advisor, also be counted as cinema electives in fulfillment of major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning</td>
<td>LD or UD and Self-Development (LLD)</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
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<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
<tr>
<td>SF State Studies</td>
<td>Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmaps (4 Year)**

This Cinema roadmap opens in a new tab. (p. 680)

This Cinema - Animation roadmap opens in a new tab. (p. 683)

This Cinema - Documentary roadmap opens in a new tab. (p. 685)

This Cinema - Fiction Filmmaking roadmap opens in a new tab. (p. 687)

This Cinema - Media and Culture roadmap opens in a new tab. (p. 690)

This Cinema - Screenwriting roadmap opens in a new tab. (p. 693)

**Transfer Student Roadmap (2 Year)**

For students with an AS-T in Film, Television and Electronic Media. This roadmap opens in a new tab. (p. 695)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Film, Television and Electronic Media

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major.
Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Cinema Roadmap

120 Total Units Required  
Minimum number of units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
</tr>
<tr>
<td>CINE 211</td>
<td>Film History I 3</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or Complementary Studies or SF State Studies or University Elective 4</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) 5</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>CINE 202</td>
<td>Introduction to Filmmaking and Introduction to Filmmaking Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CINE 204</td>
<td></td>
<td></td>
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<tr>
<td>CINE 212</td>
<td>Film History II 3</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) 5</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
<td></td>
<td>6</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16-17</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>CINE 340</td>
<td>Critical Studies and Critical Studies Discussion Group</td>
<td>4</td>
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<tr>
<td>&amp; CINE 341</td>
<td></td>
<td></td>
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<tr>
<td>GWAR Course – Select One 6</td>
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<td>3</td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
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<td>6</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<td>Major Electives (16 Units Total) – Take Two 7</td>
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<td>Required Upper Division Courses (9 units total) 8</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective 4</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Seventh Semester</strong></td>
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<td>Major Electives (16 Units Total) – Take Two 7</td>
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<td>6</td>
</tr>
<tr>
<td>Required Upper Division Courses (9 units total) 8</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

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1. GE Area A: Oral Communication (A1) or Critical Thinking (A3)
2. GE Area A: Written English Communication (A2)
3. Film History I
4. Complementary Studies or SF State Studies or University Elective
5. GE Area B: Physical Science (B1) and Laboratory Science (B3)
6. GWAR Course
7. Major Electives (16 Units Total)
8. Required Upper Division Courses (9 units total)
GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective 4 3

<table>
<thead>
<tr>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>15</td>
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**Eighth Semester**

<table>
<thead>
<tr>
<th>Major Electives (16 Units Total) – Take Two 7</th>
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</thead>
<tbody>
<tr>
<td>Required Upper Division Courses (9 units total) 8</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective 4</td>
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<table>
<thead>
<tr>
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<tr>
<td>12</td>
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<tr>
<td>Total Units</td>
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<td>119-121</td>
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</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. May substitute CINE 365, History of Animation, for either CINE 211 Film History I, or CINE 212 Film History II.

3. **Complementary Studies**

   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. *(Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)*

   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

   Cinema majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Majors may, with the approval of a Cinema advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in related disciplines. Related disciplines typically include: anthropology, art, business, creative writing, design, journalism, literature, music, philosophy, television, and theater. The School of Cinema allows up to 12 upper-division units from cinema-related disciplines to count toward the major. Where upper-division complementary studies courses are related to cinema, they may, with the approval of a School advisor, also be counted as cinema electives in fulfillment of major requirements.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. **GWAR Course – Select One**

   CINE 303GW Writing About Cinema - GWAR (3 units)
   CINE 342GW Documentary Film - GWAR (3 units)
   CINE 346GW The Art of Short Film - GWAR (3 units)
   CINE 402GW Arab Cinema - GWAR (3 units)
   CINE 410GW Art and Film - GWAR (3 units)

6. **Major Electives**

   Elect additional cinema courses to complete the total of 45 units required for the major:
   - With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
   - No more than seven units of advanced production units from the following courses may be taken in any one term unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class: CINE 430, CINE 442, CINE 454, CINE 455, CINE 466 CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 655, CINE 651.
   - If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
   - With a faculty advisor’s approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to six of those units may be in screenwriting and/or filmmaking/video production.
   - A maximum of 18 units of online course work may be counted toward the major.
   - A maximum of 12 units of independent study/internship courses may be counted toward the major.
   - A maximum of 9 CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.
Upper Division Courses
- CINE 304 Gender and Film (3 units)
- CINE 305 Film and the Holocaust (3 units)
- CINE 306 Chinese Documentary Film (3 units)
- CINE 308 Third Cinema (3 units)
- CINE 331 Hollywood Representation of Race and Ethnicity (3 units)
- CINE 332 Understanding the Representation and Narration of Sexuality in Cinema (3 units)
- CINE 342 Documentary Film (3 units)
- CINE 344 Film Genre (3 units)
- CINE 346 The Art of Short Film (3 units)
- CINE 365 History of Animation (3 units)
- CINE 372 Film Theory (3 units)
- CINE 373 Film and Society (3 units)
- CINE 375 U.S. Culture and Cinema of the 1950s (3 units)
- CINE 401 National/Regional Cinemas (3 units)
- CINE 402 Arab Cinema (3 units)
- CINE 407 History and Film (3 units)
- CINE 409 Latina/o Cinema (3 units)
- CINE 410 Art and Film (3 units)
- CINE 441 Signs of Aliens: Semiotics of Film and Popular Culture (3 units)
- CINE 502 Experiments in Cinematic Form (3 units)
- CINE 508 Film Authorship (3 units)
- CINE 540 Issues in Film Theory (3 units)
- CINE 541 Race, Sex, and Identity Online (3 units)
- CINE 610 Senior Critical Studies Seminar (3 units)
# Bachelor of Arts in Cinema: Animation Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
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<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
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<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<td><strong>Second Semester</strong></td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td>GE Area B: Quantitative Reasoning (B4)</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
</tr>
<tr>
<td>CINE 211</td>
<td>Film History I ³</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴</td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<td><strong>Units</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>CINE 202</td>
<td>Introduction to Filmmaking</td>
<td>4</td>
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<tr>
<td>&amp; CINE 204</td>
<td>and Introduction to Filmmaking Laboratory</td>
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<td>CINE 212</td>
<td>Film History II</td>
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<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴</td>
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<td>and Critical Studies Discussion Group</td>
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<td>CINE 360</td>
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<td>GAWR Course – Select One ⁵</td>
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<td><strong>Sixth Semester</strong></td>
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<td>CINE 362</td>
<td>Animation II</td>
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<td>CINE 365</td>
<td>History of Animation</td>
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<tr>
<td>CINE 423</td>
<td>Introduction to Digital Filmmaking</td>
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<td><strong>Units</strong></td>
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### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>CINE 466</td>
<td>Animation III</td>
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<tr>
<td>CINE 468</td>
<td>Advanced Animation Workshop</td>
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<td>Major Electives (10 Units Total)</td>
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<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<td></td>
</tr>
</tbody>
</table>

**Total Units**: 15

### Eighth Semester

| Major Electives (10 Units Total) – Take Two | 6     |
| Complementary Studies or SF State Studies or University Elective – Take Three | 9     |

**Total Units**: 15

**Total Units**: 120-122

---

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

3. May substitute CINE 365, History of Animation, for either CINE 211 Film History I, or CINE 212 Film History II.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3, if not already satisfied.

5. Select One:
   - CINE 303GW Writing About Cinema - GWAR (3 units)
   - CINE 342GW Documentary Film - GWAR (3 units)
   - CINE 346GW The Art of Short Film - GWAR (3 units)
   - CINE 402GW Arab Cinema - GWAR (3 units)
   - CINE 410GW Art and Film - GWAR (3 units)

6. Elect additional cinema courses to complete the total of 45 units required for the major:
   - With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
   - No more than seven units of advanced production units from the following courses may be taken in any one term unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class. CINE 430, CINE 442, CINE 454, CINE 456, CINE 466 CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 656, CINE 651.
   - If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
   - With a faculty advisor’s approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to six of those units may be in screenwriting and/or filmmaking/video production.
   - A maximum of 18 units of online course work may be counted toward the major.
   - A maximum of 12 units of independent study/internship courses may be counted toward the major.
   - A maximum of nine CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.

7. CINE 468 Satisfies the Major Culminating Experience Requirement.
### Bachelor of Arts in Cinema: Documentary Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>CINE 102</td>
<td>Introduction to Contemporary Cinema</td>
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<td>GE Area A: Written English Communication (A2)</td>
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<td>GE Area D: Social Sciences (D1)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<td><strong>Second Semester</strong></td>
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<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
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<td>GE Area B: Quantitative Reasoning (B4)</td>
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<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Third Semester</strong></td>
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<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
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<tr>
<td>CINE 211</td>
<td>Film History I</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<tr>
<td>CINE 202 &amp; CINE 204</td>
<td>Introduction to Filmmaking and Introduction to Filmmaking Laboratory</td>
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<td>CINE 212</td>
<td>Film History II</td>
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<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td><strong>Fifth Semester</strong></td>
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<td>GWAR – Select One</td>
<td>Workshop in Film Production</td>
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<td>&amp; CINE 316</td>
<td>and Film Production Laboratory</td>
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<td>CINE 340 &amp; CINE 341</td>
<td>Critical Studies and Critical Studies Discussion Group</td>
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<td>CINE 356</td>
<td>Fundamentals of Screenwriting</td>
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<td>CINE 342</td>
<td>Documentary Film</td>
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<td>CINE 456</td>
<td>Feature Screenwriting I</td>
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<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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## Seventh Semester

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<td>CINE 527</td>
<td>Documentary for Health and Social Justice I</td>
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<td>CINE 532</td>
<td>International Documentary Workshop</td>
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<td>CINE 554</td>
<td>Writing for Documentary and Nonfiction</td>
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</tr>
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**Total Units:** 15-18

## Eighth Semester

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<td>CINE 630</td>
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<td>Major Electives: (10 Units Total) – Take Two</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units:** 120-125

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.) Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Cinema majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Majors may, with the approval of a Cinema advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in related disciplines. Related disciplines typically include: anthropology, art, business, creative writing, design, journalism, literature, music, philosophy, television and theater. The School of Cinema allows up to 12 upper-division units from cinema-related disciplines to count toward the major. Where upper-division complementary studies courses are related to cinema, they may, with the approval of a School advisor, also be counted as cinema electives in fulfillment of major requirements. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. Electives

   - To take upper division cinema production courses, students must have completed CINE 310 and CINE 316 and have upper division standing.
   - With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
   - No more than seven units of advanced production units from the following courses may be taken in any one term, unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class: CINE 430, CINE 442, CINE 454, CINE 456, CINE 466, CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 544, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 656, CINE 658.
   - If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
   - With a faculty advisor’s approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to six of those units may be in screenwriting and/or filmmaking/video production.
   - A maximum of 18 units of online course work may be counted toward the major.
   - A maximum of 12 units of independent study/internship courses may be counted toward the major.
   - A maximum of nine CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.

5. CINE 630 Satisfies the Major Culminating Experience Requirement.
# Bachelor of Arts in Cinema: Fiction Filmmaking Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>CINE 102</td>
<td>Introduction to Contemporary Cinema</td>
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<td>GE Area D: Social Sciences (D1)</td>
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</tr>
<tr>
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<tr>
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<tr>
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<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td></td>
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<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
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<tr>
<td>CINE 211</td>
<td>Film History I</td>
<td>3</td>
</tr>
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<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>15-16</strong></td>
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<tr>
<td>CINE 202</td>
<td>Introduction to Filmmaking</td>
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<tr>
<td>&amp; CINE 204</td>
<td>and Introduction to Filmmaking Laboratory</td>
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<td>CINE 212</td>
<td>Film History II</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td><strong>Units</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<td>GWAR – Select One</td>
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<tr>
<td>CINE 310</td>
<td>Workshop in Film Production</td>
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<td>CINE 316</td>
<td>Film Production Laboratory</td>
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<td>CINE 340</td>
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<td>&amp; CINE 341</td>
<td>and Critical Studies Discussion Group</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<td>CINE 454</td>
<td>Writing Short Films</td>
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<td>Major Electives (10 Units Total)</td>
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<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15-16</strong></td>
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### Seventh Semester

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<tr>
<th>Course</th>
<th>Description</th>
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<tr>
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<tr>
<td>Major Electives (10 Units Total)</td>
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<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CINE 620</td>
<td>Advanced Fiction Filmmaking I</td>
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<tr>
<td>Major Electives or Complementary Studies or SF Studies or University Electives</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

#### Total Units: 15-16

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1. To avoid taking additional units, it is recommended that you meet LL! and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major.

   (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

   Cinema majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Majors may, with the approval of a Cinema advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, or a minor or a certificate, and courses in related disciplines. Related disciplines typically include: anthropology, art, business, creative writing, design, journalism, literature, music, philosophy, television and theater. The School of Cinema allows up to 12 upper-division units from cinema-related disciplines to count toward the major. Where upper-division complementary studies courses are related to cinema, they may, with the approval of a School advisor, also be counted as cinema electives in fulfillment of major requirements.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. CINE 303GW Writing About Cinema - GWAR (3 units)
   CINE 342GW Documentary Film - GWAR (3 units)
   CINE 346GW The Art of Short Film - GWAR (3 units)
   CINE 402GW Arab Cinema - GWAR (3 units)
   CINE 410GW Art and Film - GWAR (3 units)

6. **Major Emphasis Electives**

   CINE 423 Introduction to Digital Filmmaking (3 units)
   CINE 442 Producing and Finishing Films I (3 units)
   CINE 510 Directing Visual Style (3 units)
   CINE 512 Sound Production for Cinema (3 units)
   CINE 515 Directing Actors (3 units)
   CINE 519 Soundstage Workshop (1 unit)
   CINE 520 Sound Post-Production for Cinema (3 units)
   CINE 522 Projects in Film Editing (3 units)
   CINE 523 Exploration in Interactive Cinema (3 units)
   CINE 524 Exploring Sound Design for Cinema (3 units)
   CINE 525 Cinematography and Lighting (3 units)
   CINE 530 Digital Cinematography (3 units)
   CINE 542 Producing and Finishing Films II (3 units)
   CINE 620 Advanced Fiction Filmmaking I (3 units)
   CINE 622 Advanced Fiction Filmmaking II (3 units)
   CINE 623 Exploration in Cinema as an On-Line Medium (3 units)
   CINE 624 Advanced Production Crafts (1 unit)
   CINE 654 Writing and Performing in Film and Theatre (3 units)
Electives

- With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
- No more than seven units of advanced production units from the following courses may be taken in any one term, unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class. CINE 430, CINE 442, CINE 454, CINE 456, CINE 466, CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 656, CINE 651.
- If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
- With a faculty advisor's approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to six of those units may be in screenwriting and/or filmmaking/video production.
- A maximum of 18 units of online course work may be counted toward the major.
- A maximum of 12 units of independent study/internship courses may be counted toward the major.
- A maximum of nine CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.

CINE 620 satisfies the Major Culminating Experience Requirement.
## Bachelor of Arts in Cinema: Media and Culture Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td>GE Area B: Quantitative Reasoning (B4)</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
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<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
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<tr>
<td>CINE 211</td>
<td>Film History I</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td>or Complementary Studies or SF State Studies or University Elective</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<td>CINE 202</td>
<td>Introduction to Filmmaking</td>
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<td>&amp; CINE 204</td>
<td>and Introduction to Filmmaking Laboratory</td>
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<td>CINE 212</td>
<td>Film History II</td>
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<td><strong>Fifth Semester</strong></td>
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<td>Major Elective (10 Units Total)</td>
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<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td><strong>Units</strong></td>
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<td><strong>Seventh Semester</strong></td>
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<td>CINE 610</td>
<td>Senior Critical Studies Seminar</td>
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<td>Major Emphasis Electives (12 Units Total)</td>
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<td>Major Elective (10 Units Total)</td>
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<tr>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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**Eighth Semester**

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<td><strong>Total Units</strong></td>
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</table>

To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE.

ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3 **Complimentary Studies**

Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major.

(Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

Cinema majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Majors may, with the approval of a Cinema advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in related disciplines. Related disciplines typically include: anthropology, art, business, creative writing, design, journalism, literature, music, philosophy, television and theater. The School of Cinema allows up to 12 upper-division units from cinema-related disciplines to count toward the major. Where upper-division complementary studies courses are related to cinema, they may, with the approval of a School advisor, also be counted as cinema electives in fulfillment of major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4 **Course Descriptions:**

- **CINE 303GW Writing About Cinema - GWAR (3 units)**
- **CINE 342GW Documentary Film - GWAR (3 units)**
- **CINE 346GW The Art of Short Film - GWAR (3 units)**
- **CINE 402GY Arab Cinema - GWAR (3 units)**
- **CINE 410GY Art and Film - GWAR (3 units)**

5 **Major Emphasis Electives (at least one of which must be taken at the 400/500 level, prior to taking CINE 610):**

- **CINE 304 Gender and Film (3 units)**
- **CINE 305 Film and the Holocaust (3 units)**
- **CINE 306 Chinese Documentary Film (3 units)**
- **CINE 308 Third Cinema (3 units)**
- **CINE 351 Hollywood Representation of Race and Ethnicity (3 units)**
- **CINE 352 Understanding the Representation and Narration of Sexuality in Cinema (3 units)**
- **CINE 342 Documentary Film (3 units)**
- **CINE 344 Film Genre (3 units)**
- **CINE 346 The Art of Short Film (3 units)**
- **CINE 365 History of Animation (3 units)**
- **CINE 372 Film Theory (3 units)**
- **CINE 373 Film and Society (3 units)**
- **CINE 375 U.S. Culture and Cinema of the 1950s (3 units)**
- **CINE 401 National/Regional Cinemas (3 units)**
- **CINE 402 Arab Cinema (3 units)**
- **CINE 407 History and Film (3 units)**
- **CINE 409 Latina/o Cinema (3 units)**
- **CINE 410 Art and Film (3 units)**
- **CINE 441 Signs of Aliens: Semiotics of Film and Popular Culture (3 units)**
- **CINE 502 Experiments in Cinematic Form (3 units)**
- **CINE 508 Film Authorship (3 units)**
- **CINE 540 Issues in Film Theory (3 units)**
- **CINE 541 Race, Sex, and Identity Online (3 units)**
Major Electives

• With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
• No more than seven units of advanced production units from the following courses may be taken in any one term, unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class. CINE 430, CINE 442, CINE 454, CINE 456, CINE 466, CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 656, CINE 651.
• If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
• With a faculty advisor's approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to 6 of those units may be in screenwriting and/or filmmaking/video production.
• A maximum of 18 units of online course work may be counted toward the major.
• A maximum of 12 units of independent study/internship courses may be counted toward the major.
• A maximum of nine CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.

CINE 375 and CINE 409 satisfy major elective and UD-C requirements.

CINE 610 satisfies the Major Culminating Experience Requirement.
# Bachelor of Arts in Cinema: Screenwriting Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
</tr>
<tr>
<td>CINE 211</td>
<td>Film History I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 202</td>
<td>Introduction to Filmmaking</td>
<td>4</td>
</tr>
<tr>
<td>CINE 204</td>
<td>and Introduction to Filmmaking Laboratory</td>
<td></td>
</tr>
<tr>
<td>CINE 212</td>
<td>Film History II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14-15</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GWAR – Select One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CINE 340</td>
<td>Critical Studies</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CINE 341</td>
<td>and Critical Studies Discussion Group</td>
<td></td>
</tr>
<tr>
<td>CINE 356</td>
<td>Fundamentals of Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 454</td>
<td>Writing Short Films</td>
<td>3</td>
</tr>
<tr>
<td>CINE 456</td>
<td>Feature Screenwriting I</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (10 Units Total)  
GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)  
Complementary Studies or SF State Studies or University Elective

**Units** 15

---

693
### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 556</td>
<td>Feature Screenwriting II</td>
<td>3</td>
</tr>
<tr>
<td>Electives (10 Units Total) – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
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</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 656</td>
<td>Screenwriting Workshop</td>
<td>3</td>
</tr>
<tr>
<td>Electives (10 Units Total)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>120-122</strong></td>
<td></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP ES, SJ) within your GE.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major.  
   (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

   Cinema majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Majors may, with the approval of a Cinema advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in related disciplines. Related disciplines typically include: anthropology, art, business, creative writing, design, journalism, literature, music, philosophy, television and theater. The School of Cinema allows up to 12 upper-division units from cinema-related disciplines to count toward the major. Where upper-division complementary studies courses are related to cinema, they may, with the approval of a School advisor, also be counted as cinema electives in fulfillment of major requirements.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. CINE 303GW Writing About Cinema - GWAR (3 units)
   CINE 342GW Documentary Film - GWAR (3 units)
   CINE 346GW The Art of Short Film - GWAR (3 units)
   CINE 402GW Arab Cinema - GWAR (3 units)
   CINE 410GW Art and Film - GWAR (3 units)

6. **Electives**

   - With prior approval of advisor, up to 12 units of Cinema-related upper division courses outside the School may count toward the major.
   - No more than seven units of advanced production units from the following courses may be taken in any one term, unless special permission is granted by the instructor. Such permission cannot be given prior to the first day of class. CINE 430, CINE 442, CINE 454, CINE 456, CINE 466, CINE 468, CINE 510, CINE 512, CINE 515, CINE 520, CINE 522, CINE 523, CINE 524, CINE 525, CINE 526, CINE 529, CINE 530, CINE 542, CINE 551, CINE 556, CINE 568, CINE 620, CINE 622, CINE 623, CINE 630, CINE 640, CINE 654, CINE 656, CINE 651.
   - If the minimum residence requirement of 12 units in the major is satisfied, credit for upper-division courses in the major from another four-year university is possible if syllabi are comparable.
   - With a faculty advisor’s approval no more than 13 units from a community college may be applied to the core courses in the Cinema major. Up to six of those units may be in screenwriting and/or filmmaking/video production.
   - A maximum of 18 units of online course work may be counted toward the major.
   - A maximum of 12 units of independent study/internship courses may be counted toward the major.
   - A maximum of nine CR/NC units may be counted toward the major, which may include up to a maximum of four units of different CINE 325, CINE 326, or CINE 650 courses.

7. CINE 656 satisfies the Major Culminating Experience Requirement.
Bachelor of Arts in Cinema – FTVE Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Film, Television and Electronic Media. Up to 13 lower division units in the major and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. If equivalent courses completed for ADT, CINE 200, CINE 202/CINE 204, CINE 211, and/or CINE 212 are satisfied. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
</tr>
<tr>
<td>CINE 202 &amp; CINE 204</td>
<td>Introduction to Filmmaking and Introduction to Filmmaking Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CINE 211</td>
<td>Film History I</td>
<td>3</td>
</tr>
<tr>
<td>CINE Course with GW suffix^2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)^2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 212</td>
<td>Film History II and Critical Studies Discussion Group</td>
<td>3-4</td>
</tr>
<tr>
<td>or CINE 340 &amp; CINE 341</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if U.S. and California Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
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<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 340 &amp; CINE 341</td>
<td>Critical Studies and Critical Studies Discussion Group</td>
<td>4</td>
</tr>
<tr>
<td>Major Upper Division Required (300 level only if Foundation not completed)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two ^3</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CINE 375 or CINE 409</td>
<td>U.S. Culture and Cinema of the 1950s^4 or Latina/o Cinema</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Required</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Three ^3</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>16</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1   CINE 204 is waived for students who have completed [CID] FTVE 150.
2   If ENG 214 or equivalent is not completed before transfer, take CINE GWAR course in the second semester and take CINE 212 in first semester, if needed. Progress in the major and length of time for degree completion may be affected if second year composition is not completed before transfer.
3   CINE 310 is a prerequisite for all film production courses. CINE 200-CINE 202-CINE 204-CINE 211-CINE 212 must be completed in order to be eligible to enroll in CINE 310.
4   CINE 375 satisfies GE Area UD–C: Upper Division Arts and/or Humanities.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper Division GE, areas B, C and D (9 units): Some Major Electives also satisfy UD-C. See notes.
- Students entering the major with the AS-T in FTVE are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Cinema Major: 32–45 Units
- Core/Foundation/GWAR (7–20 units): Depends upon course choices made at the community college. Minimum grade of C required for all Core courses.
- Required Upper Division Courses (9 units): Select three courses from this category; consult Bulletin.
- Electives (16 units)

University Electives: Zero Units or More
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Minor in Animation

Animation is a rigorous, cross-disciplinary production program encouraging creative storytelling, social issue documentary and artistic experimentation. Using techniques like drawing, stop-motion, 2D/3D digital, mixed media and effects animation, students apply research from their respective majors to short animated projects. Students gain a strong foundation in animation principles and methods applicable to creative, industrial and scientific fields. Admission to the minor is open to all students with upper division standing. Enrollment is limited and requires a portfolio review. Positive portfolio review admits students to CINE 360, which is offered in the Fall semester only. Enrollment in subsequent classes for the Minor requires a grade of C- or better in the required animation courses.

Animation Portfolio Review

Students must meet with an animation advisor to be admitted into the Minor. In addition to their portfolio, students must bring an unofficial transcript and Degree Progress Report (DPR) to confirm upper division standing. Current portfolio guidelines and Animation advisor office hours are listed on the School of Cinema website: http://www.cinema.sfsu.edu/people/faculty

Portfolio Guidelines

It is highly recommended that students take a beginning drawing and a life drawing class before the review. Portfolios should include students’ strongest work and be limited to 20 pages assembled in one book.

- Four to six pages of life drawings done from live subjects (not from photographic references).
- Four to six pages of rough and gesture style sketches of animals and humans in motion (not from photographic or cartoon references).
- Two to four pages of color and design work that may include drawing, painting, photography, 2D and or 3D design.
- Two pages of recent personal work in any media.
- Optional: up to two animation or film samples on a DVD or portable drive (MAC compatible).

Animation Minor — 15 units

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 360</td>
<td>Animation I (Portfolio Required)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 362</td>
<td>Animation II</td>
<td>3</td>
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<tr>
<td>CINE 365</td>
<td>History of Animation</td>
<td>3</td>
</tr>
<tr>
<td>CINE 466</td>
<td>Animation III</td>
<td>3</td>
</tr>
<tr>
<td>CINE 468</td>
<td>Advanced Animation Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in Cinema

This program does not lead to a credential or degree, but is intended to give students an opportunity to further their interests in cinema in an organized manner. Note: Cinema majors are given enrollment priority in Cinema production classes, hence Cinema minors are not likely to be able to take Cinema production classes.

Cinema Minor — minimum 20 units

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 200</td>
<td>Introduction to Cinema Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

CINE 211  Film History I  3
CINE 212  Film History II  3

Electives

All elective units must be upper division. Only Cinema majors are permitted to enroll in CINE 310 and advanced production courses.

Master of Arts in Cinema Studies

Admission to the Program

The School of Cinema accepts new M.A. students for the fall semester only.

The graduate admission application to San Francisco State University is a two-part process. Part One is the university application, which should be submitted through CSU Mentor and which is administered by the Division of Graduate Studies. Part Two is the academic department application, details of which can be found on the Master of Arts page (https://cinema.sfsu.edu/content/master-arts) of the School of Cinema website. You must submit Part One and Part Two of your graduate admission application simultaneously by the deadline to be considered for admission. Applicants may only apply to a single graduate program per application term.

Part One:

1. Apply online through CSU Mentor for a Graduate Program (http://www.csumentor.edu/AdmissionApp/grad_apply.asp). The Office of Graduate Admissions no longer accepts paper applications to graduate programs.
2. Pay the 55.00 USD application fee. We recommend that you pay online by credit card at the moment you submit your application. If you selected the option to pay the application fee by check or money order, make the check payable to “San Francisco State University.”
3. Send all required documents noted on your online SF Gateway Portal “To Do List” to the Division of Graduate Studies:

   Graduate Admissions
   San Francisco State University
   1600 Holloway Ave., ADM 250
   San Francisco, CA 94132

Part Two:

Apply to the School of Cinema’s M.A. in Cinema Studies Program. The application link/form can be found on the Master of Arts page (http://www.cinema.sfsu.edu/content/master-arts) of the School of Cinema website.

Applicants must have a GPA of 3.0 or better in the last two years of undergraduate study. Applicants with degrees in areas other than film or media who show exceptional potential will be considered for admission to the program if they have completed at least three courses in cinema or media history and theory.

The admission materials specifically requested by the School of Cinema include:

- A one to two-page Résumé or Curriculum Vitae summarizing the applicant’s education, awards or recognition, work experience, languages, and special skills.
- A Background and Research Interests Statement (two single-spaced pages maximum). Applicants should describe how their past academic work has prepared them for graduate work. Non-film/
media majors should describe an aspect of work done in their major area, and discuss how they plan to develop these (or other) research interests as a graduate student in the MA in Cinema Studies program.

- An example of academic writing (6–12 pages) that illustrates the applicant’s ability to make and support a thesis as well as familiarity with scholarly form and expository style. Papers from the film and media disciplines are preferred, but other academic work is acceptable.
- At least two letters of recommendation from individuals who can attest to the applicant’s scholarship and potential for success in a graduate program. (Note: the School does not provide an official recommendation form.)
- Unofficial transcripts.
- The GRE is NOT required.

All prospective M.A. students may contact the School’s graduate office about specific questions. Write:

Graduate Committee
School of Cinema
San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132
Email: cinegrad@sfsu.edu.

Additional information and application forms are available on the Graduate Program pages (http://www.cinema.sfsu.edu/content/graduate-program) of the School of Cinema website.

Written English Proficiency Requirement
Level One
First level proficiency is assessed by means of written work completed in CINE 700 for an overall grade of B or better.

Level Two
Second level proficiency is assessed by means of the thesis proposal.

Advancement to Candidacy
Prior to admission, M.A. candidates should have successfully completed three undergraduate film studies courses beyond the introductory level. Deficiencies will be identified on admission to the program and should be completed as soon as possible. All deficiencies must be satisfied prior to advancement to candidacy.

Required Courses for M.A. in Cinema Studies
All students must complete at least 30 units. Upper division courses not used to satisfy graduate admission deficiencies are acceptable as electives on approval by a graduate advisor.

Cinema Studies (M.A.) – 30 units
Core Requirements (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 700</td>
<td>Introduction to Graduate Studies</td>
<td>3</td>
</tr>
<tr>
<td>CINE 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (minimum 24 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 720</td>
<td>Critical Paradigms and the Cinematic</td>
<td>3</td>
</tr>
<tr>
<td>CINE 721</td>
<td>Cinematic Documentary</td>
<td>3</td>
</tr>
<tr>
<td>CINE 722</td>
<td>Independent Cinema</td>
<td>3</td>
</tr>
</tbody>
</table>

CINE 723 Cinema Forms and Aesthetics 3
CINE 727 Cinematic Styles, Forms, and Movements 3
CINE 728 Cinema Histories 3
CINE 741 Cinema and the City 3
CINE 743 Sexuality in the Cinema 3
CINE 747 Post-colonial Cinema 3
CINE 748 Cinema and Cultural Studies 3
CINE 749 Critical Practices 3
CINE 820 Seminar in Critical Theory 3
CINE 823 Curation and Cinema 3
CINE 852 Directed Experience in Film Education 3
CINE 897 Research Projects in Cinema Studies 3
CINE 899 Independent Study 3

Not all courses will be offered each semester; please check the Cinema website cinema.sfsu.edu (http://cinema.sfsu.edu) for schedule information for the relevant semester.

Master of Fine Arts in Cinema

The 60 unit M.F.A. program is divided into three distinct parts and is designed to be completed in three years. During the first year, students build a foundation through the study of technical crafts, aesthetics, and theory, develop their creative process, and begin to integrate conceptual frameworks into their creative work. This work culminates with the completion of an individual film project.

In the second year, this foundation is broadened through advanced courses that lead to the production of short film projects demonstrating original thinking, conceptual clarity, technical skill, and the refinement of a personal aesthetic. Second-year work also is geared to prepare each student to successfully complete the thesis proposal.

In the third part of the program, students complete a thesis that is a culmination of previous work and a reflection of the development of the student’s creative voice. M.F.A. students are also required to gain teaching experience as graduate assistants and may subsequently apply for appointments as teaching associates in the School of Cinema.

Admission to the Program

The School of Cinema accepts new M.F.A. students for the fall term only.

Application for admission requires two distinct processes:

The graduate admission application to San Francisco State is a two-part process. Part One is the university application, which should be submitted through CSU Mentor and which is administered by the Division of Graduate Studies. Part Two is the academic department application, details of which can be found on the Masters of Fine Arts page on the School of Cinema website. You must submit Part One and Part Two of your graduate admission application simultaneously by the deadline to be considered for admission. Applicants may only apply to a single graduate program per application term.

Part One:
1. Apply online through CSU Mentor for a Graduate Program (http://www.csumentor.edu/AdmissionApp/grad_apply.asp). The Office of Graduate Admissions no longer accepts paper applications to graduate programs.
2. Pay the $55.00 USD application fee. We recommend that you pay online by credit card at the moment you submit your application. If you selected the option to pay the application fee by check or money order, make the check payable to “San Francisco State University.”

3. Send all required documents noted on your online SF Gateway Portal “To Do List” to the Division of Graduate Studies:

   Graduate Admissions  
   San Francisco State University  
   1600 Holloway Ave., ADM 250  
   San Francisco, CA 94132

Part Two:
Apply to the School of Cinema’s M.F.A. Program. The application link/form can be found on the Masters of Fine Arts page of the School of Cinema website.

Applicants must have a GPA of 3.0 or better in the last two years of undergraduate study. Applicants with degrees in areas other than film who show exceptional potential will be considered for admission to the program.

Prior to admission, all candidates must have completed two courses in cinema studies beyond the introductory level. One of these courses must be in critical theory, stressing critical approach or methodology; the other must be in cinema history. One introductory course in film production and a basic course in non-linear digital editing, or equivalent experience, are also required. Students will be expected to be familiar with Adobe’s Premiere Pro for initial course work.

The application materials specifically requested by the School of Cinema include:

- A one to two-page Résumé or Curriculum Vitae summarizing the applicant’s education, awards or recognition, work experience, travel, languages, and special skills.

- A Personal Statement (three pages maximum) discussing aesthetic influences, creative interests, and professional objectives as a filmmaker, including comments on: the areas of film on which the applicant would like to concentrate, how theory informs his/her work as a filmmaker, and the goals he/she intends to pursue upon completion of the M.F.A.

- An example of academic writing (7 to 12 pages) that illustrates the applicant’s ability to make and support a thesis as well as demonstrating familiarity with scholarly form and expository style. Papers from the film and media disciplines are preferred, but other academic work is acceptable. No journalistic “review” essays or scripts are accepted as supplementary materials.

- An example of moving image work is required. In addition to film/video work, examples of other creative work, such as photographs, paintings, or creative writing are also accepted.

- At least two letters of recommendation from individuals who can attest to the applicant’s creativity and aptitude for graduate work as well as to the quality of past work and potential for future achievement. At least one letter from a former professor is recommended. (Note: the School does not provide an official recommendation form.)

- Unofficial transcripts.

- The GRE is NOT required.

For further information about the M.F.A., School of Cinema procedures and activities, production costs, and other advising matters, write:

Graduate Assistant  
School of Cinema  
San Francisco State University  
1600 Holloway Avenue  
San Francisco CA 94132  
Email: cinegrad@sfsu.edu

Additional information about submitting application materials is available on the Cinema Department website: www.cinema.sfsu.edu. (http://www.cinema.sfsu.edu)

Completion of the Degree
In addition to successful completion of the course of study, each student must meet School requirements that include a formal script review at the end of the first semester, a formal progress review at the end of the first year, a formal presentation and faculty evaluation of the creative work project proposal at the end of the second year (upon which advancement to candidacy is contingent) and a documented public screening of the student’s creative thesis project.

Under certain circumstances, up to 24 units of graduate credit from an M.A. program in film production may be applied toward the M.F.A. Before any such request is considered, all admission requirements must be met and all previous course work must be reviewed and approved by the Cinema graduate committee and the Dean of Graduate Studies.

Enrollment in an upper division or graduate-level cinema course must be continuous until graduation. Registration may be in a regular university course, summer session course, or College of Extended Learning’s LCA 499, which satisfies the University’s continuous enrollment requirement for graduate students.

Written English Proficiency Requirement
Level One
First level proficiency is assessed by means of written work completed in the critical theory course taken in the first semester in the M.F.A. program. This course must be completed with an overall grade of B or better.

Level Two
Second level proficiency is assessed by means of the creative work proposal normally prepared in CINE 770.

Advancement to Candidacy
Students must meet all general University requirements for advancement to candidacy, and receive a B or better in all required courses for the M.F.A. degree, as well as successfully pass all formal reviews (first-year script review, first-year progress review, thesis proposal review, and thesis committee review).

Required Courses
All M.F.A. students must complete 42 units of required classes and 18 units of electives. First and second-year required courses must be taken in sequence. Advancement to the second and third year of the program is contingent on faculty review and approval by the M.F.A. Coordinator.

Cinema (M.F.A.) — 60 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td>CINE 701</td>
<td>Creative Process I</td>
</tr>
</tbody>
</table>
CINE 710 Production Practice I 3
CINE 711 Production Practice II 3
CINE 712 Production Practice III 3
Select two 700 level cinema (CINE) critical 6
theory elective courses (See details below)

| Units | 18 |

**Second Year**
CINE 702 Creative Process II 3
CINE 770 Film Production Research 3
CINE 726 Cinema Theory II 3
Select a 700-level cinema (CINE) critical theory elective course (See details below) 3
Select two of the following in the second or third year 6

<table>
<thead>
<tr>
<th>CINE 761 Directed for Cinema</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 762 Advanced Cinema</td>
</tr>
<tr>
<td>Production and Lighting</td>
</tr>
<tr>
<td>CINE 763 Projects in Advanced</td>
</tr>
<tr>
<td>Editing</td>
</tr>
<tr>
<td>CINE 755 Feature Screenwriting</td>
</tr>
<tr>
<td>CINE 713 Animation Workshop</td>
</tr>
</tbody>
</table>

| Units | 18 |

**Third Year**
CINE 852 Directed Experience in Film Education 3
CINE 894 Creative Work Project 3

| Units | 6 |

| Total Units | 42 |

**Elective Units (18 units)**
Elective units chosen upon consultation with the graduate advisor from upper division production courses (up to 6 units), animation courses, graduate film studies seminars, and approved courses from related disciplines. May be taken in any year.

**M.F.A. Critical Theory Requirements**
M.F.A. students must take a total of four critical theory graduate-level courses, according to the following guidelines:

- Students must complete three critical theory courses in the first two years.
- Students must take CINE 726 during the spring semester of their second year.

Not all courses will be offered each semester; please check the class schedule information for the relevant semester for availability.
CLASSICS

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Classics
Humanities Building, Room 377
Phone: (415) 338–2068
Email: clas@sfsu.edu

Chair: David D. Leitão
Undergraduate Advisors: M. Anderson, D. Leitão, G. McIntosh, A. Pappas, D.G. Smith
Graduate Coordinator: Gillian McIntosh

Mission Statement
Classics at SF State is an interdisciplinary program that combines intensive training in Greek and Latin language and literature and the material culture of the ancient Mediterranean.

Program Scope
Undergraduate Program
The Bachelor of Arts in Classics is an interdisciplinary program that provides students with the means to explore the ancient cultures of the Mediterranean and Near East, including Egypt. The study of ancient languages, literature (in the original languages and in translation), and art and archaeology enables students to reconstruct ancient cultures and to examine critically the importance, which they continue to have in the world of today. Students also learn the methods of archaeological, art historical, and philological approaches to the past.

Graduate Program
The Master of Arts in Classics introduces students to advanced methodologies used in the study of the ancient languages, the interpretation of ancient texts, and the analysis of material culture. All graduate students must fulfill the same basic program requirements (http://bulletin.sfsu.edu/colleges/liberal-creative-arts/classics/ma-classics/#degreerequirementstext), but will, with the help of an advisor, tailor their coursework and schedule of exams in accordance with their career plans.

Latin Teaching Credential
The department offers a Certification of Single Subject Matter Preparation in Latin, recognized by the State of California, for students interested in teaching Latin in California public middle and high schools.

Career Outlook
The undergraduate degree in classics is designed for students who wish to gain an interdisciplinary and broad liberal arts education. Students will find training in classics valuable in professional programs (in law or medicine, for example) that increasingly emphasize the importance of the humanities. The undergraduate degree also provides a sound foundation for students who wish to continue work in classics at the graduate level.

The graduate degree is of particular value for students who intend to pursue a doctoral degree in classics or who plan to teach at the high school or community college levels. Students with goals in other academic areas, including museum studies, history, philosophy, theology, modern languages, or comparative literature, can also benefit from a master’s degree in classics.

Professors
Leitão, Smith

Associate Professors
Anderson, McIntosh, Pappas

Major
• Bachelor of Arts in Classics (p. 701)

Minor
• Minor in Classics (p. 706)

Masters
• Master of Arts in Classics (p. 706)

Bachelor of Arts in Classics
All classics majors are expected to take 18 units of core courses and 18 units of electives, as specified in the Degree Requirements (http://bulletin.sfsu.edu/colleges/liberal-creative-arts/classics/ba-classics/
#degreerequirementstext).

Advising
To ensure adequate planning of a student’s program, all majors must consult an advisor regularly throughout their undergraduate years.

Bachelor of Arts in Classics — 36 Units

Discovery (6 Units)
Select two lower division courses from CLAR, CLAS, GRE, and LATN prefixes.

Survey (9 Units)
Select three courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 410/</td>
<td>Ancient Greek Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUM 401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAS 415/</td>
<td>Ancient Roman Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUM 402</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAR 420/</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAR 425/</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 402</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Synthesis (3 Units)
Select three courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 400GW</td>
<td>Approaches to the Classics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or a GWAR course in another department upon advisement.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electives (18 Units)
Select six elective courses, upon advisement, from CLAS, CLAR, GRE, and LATN prefixes, at least two of which must be upper division. With the permission of an advisor, three electives can be taken in another department.
**Culminating Experience**

All undergraduate students will complete a culminating experience project with one of the following components:

- A demonstration of oral and written skills in Latin and/or Greek. This demonstration has three parts: oral declamation of a prose passage; written transcription of a prose passage dictated by a test administrator; and oral declamation of passage of poetry (scansion) in dactylic hexameter.
- A comprehensive reflective statement focused on the role that receiving a Classical education at SF State has and will play in the student’s life.
- A display of the student’s best projects from their Classics coursework (e.g. term papers, translations, archaeological reconstructions).

These components may be fulfilled through in-person meetings with a Classics undergraduate advisor, but students wishing to develop and display information competency are encouraged to complete these components in electronic form (website, etc.).

**Complementary Studies**

Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete the CS requirements for students in the classics major is to complete 12 units in Greek (GRE) or Latin (LATN) or some combination.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
</tbody>
</table>

Lifelong Learning LD or UD and Self-Development (LLD)

| Physical and/or Life Science     | UD           | 3     | UD-B             |
| Arts and/or Humanities           | UD           | 3     | UD-C             |
| Social Sciences                  | UD           | 3     | UD-D             |

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).
Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AIEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Classics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 36

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lower Division CLAR, CLAS, GRE, and LATN Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Division CLAR, CLAS, GRE, and LATN Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives (18 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives (18 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLAS 400GW Approaches to the Classics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey (9 units) – Select One</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives (18 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey (9 units) – Select One</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives (18 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey (9 units) – Select One</td>
<td>3</td>
</tr>
</tbody>
</table>
GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective – Take Two 3

Units 15

Eighth Semester
Electives (18 units) – Take Two 4 6
Complementary Studies or SF State Studies or University Elective – Take Three 3

Units 15
Total Units 120-121

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3 Complementary Studies
Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)
Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete the CS requirements for students in the classics major is to complete 12 units in Greek (GRE (p. 1578)) or Latin (LATN (p. 1651)) or some combination.
4 Electives (18 Units)
Select six elective courses, upon advisement, from CLAS (p. 1452), CLAR (p. 1450), GRE (p. 1578), and LATN (p. 1651) prefixes, at least two of which must be upper division. With the permission of an advisor, three electives can be taken in another department.
Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Or a GWAR course in another department upon advisement.
5 Survey (9 units)
CLAS 410 Ancient Greek Literature (3 units)
CLAS 415 Ancient Roman Literature (3 units)
CLAR 420 Greek Art and Archaeology (3 units)
CLAR 425 Roman Art and Archaeology (3 units)
6 Culminating Experience
All undergraduate students will complete a culminating experience project with one of the following components:
• A demonstration of oral and written skills in Latin and/or Greek. This demonstration has three parts: oral declamation of a prose passage; written transcription of a prose passage dictated by a text administrator; and oral declamation of passage of poetry (scansion) in dactylic hexameter.
• A comprehensive reflective statement focused on the role that receiving a Classical education at SF State has and will play in the student’s life.
• A display of the student’s best projects from their Classics coursework (e.g. term papers, translations, archaeological reconstructions).

These components may be fulfilled through in-person meetings with a Classics undergraduate advisor, but students wishing to develop and display information competency are encouraged to complete these components in electronic form (website, etc.).
Minor in Classics

Minor in Classics — 15 units

Discovery (6 units)
Select two lower division courses from the CLAS, CLAR, GRE, or LATN prefixes.

Survey (9 units)
Select three courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 410/</td>
<td>Ancient Greek Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUM 401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAS 415/</td>
<td>Ancient Roman Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUM 402</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAR 420/</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAR 425/</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ART 402</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Master of Arts in Classics

Admission to the Program
The ideal applicant to the Master of Arts in Classics program is someone with

1. an undergraduate major in classics (or equivalent learning experience); and
2. sufficient proficiency in both Latin and Greek to take graduate seminars in those languages.

The Graduate Division also requires that applicants have a minimum 3.0 undergraduate GPA. The department does admit students who have less than the ideal preparation described above; in those cases, the applicant is admitted conditionally (subject to meeting certain conditions for progress through the program).

Applicants must take the GRE, complete the online application to the graduate program, and submit directly to the department a two to three-page statement of purpose, an eight to ten-page writing sample, and one letter of recommendation (sent directly by the recommender).

Written English Proficiency Requirement
Level One
Satisfied by the writing sample submitted as part of the application process.

Level Two
Satisfied by the culminating experience project (either the literature survey that accompanies the oral exam [CLAS 896/CLAS 896EXM] or the thesis [CLAS 898]).

Classics (M.A.) — Minimum 30 Units

Core Requirements (18 Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 700</td>
<td>Proseminar in Classical Studies: Texts and Contexts</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 720</td>
<td>Seminar in Classical Languages and Literature (variable topic)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course in the range of CLAR 800 - CLAR 890 Seminars in Classical Archaeology—Cultures and Civilizations

Choose one additional course from either CLAR 720 or CLAR 800 – CLAR 890

Select two graduate courses in ancient literature (courses with GRE and/or LATN prefixes)

Electives (9 Units)
Three electives, one of which may be from outside the department. All electives taken within the department (CLAS, CLAR, GRE, LATN) must be graduate level. Any course taken outside of the department must be approved by an advisor; such a course may be upper division.

Culminating Experience (3 Units)
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 896</td>
<td>Directed Reading in Classics</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 896EXM</td>
<td>and Culminating Experience Examination</td>
<td></td>
</tr>
<tr>
<td>CLAS 898</td>
<td>Master's Thesis (and Prospectus)</td>
<td></td>
</tr>
</tbody>
</table>

Comprehensive Oral Examination
Upon completion of course work, the student not writing a thesis must pass a comprehensive oral examination administered by a committee of at least two faculty members on a specified group of works in the student's area of emphasis.

Master’s Thesis and Prospectus
A written and oral presentation of the thesis prospectus is required before the writing of the thesis. The student’s committee of at least two faculty members must approve the prospectus before the student files the Proposal for Culminating Experience Requirement form with the Graduate Division.

Written M.A. Examinations
Upon completion of course work, students must pass two of the following exams:

- Greek Translation
- Latin Translation
- Classical Archaeology

Modern Language Requirement
Students must demonstrate proficiency in at least one modern language (French, German, or Italian) by passing a two-hour translation examination (with dictionary), set by the department, or by obtaining a minimum grade of B in one upper division foreign language course or course for reading knowledge taken at SF State or elsewhere. This requirement must be satisfied by the end of the student’s third semester in the program.
COMMUNICATION STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

Communication Studies Department
Humanities Building, Room 289
Phone: (415) 338-1597
Email: comm@sfsu.edu
Chair: Christina M. Sabee

Program Scope
Mission of the Department
We are committed to the study of human communication in various contexts from multiple and interconnected perspectives that contribute to a more humane world. Through communication, humans form identities, connect with one another, examine values, enact cultures, and work collectively.

The department examines how people express themselves verbally and nonverbally; how identities are created, performed, and changed; how people listen to others; and how symbols relate to human behavior. It acknowledges, appreciates, and integrates human diversity in its various forms. It studies human communication in culturally and socially diverse contexts. It does so by using a variety of methods and technologies to discover and share knowledge about communication and to analyze, interpret, and perform discourse. Areas of study include language and social interaction, group processes, organizational communication, interpersonal and intercultural communication, rhetoric and political communication, public speaking, performance studies, and research methodologies.

Communication Studies students develop skills essential for leadership and career development, and for understanding and interpreting events. They learn to advocate and critically debate ideas in social and political settings, appreciate diverse communication styles, work productively in task-oriented groups, and engage in rewarding interpersonal relationships.

The department works to express what it perceives, feels, and believes, encouraging students to do the same so that all may engage openly in genuine dialogue. It also encourages the practice of hearing and honoring a variety of voices and celebrating creative and humane approaches to solving complex human problems in our local and global communities.

Application Filing Periods
Applications for admission are accepted during the application filing period for the fall and spring semesters.

Transfer applicants from other colleges must submit an application via CSU Mentor at http://www.csumentor.edu.

Continuing SF State students must submit their change of major form directly to the Department of Communication Studies. Change of major forms, accompanied with unofficial transcripts, will be accepted between August 1 and October 1 for spring, and between January 1 and March 1 for fall.

Advising
Students work with advisors to create their academic program, and the department hosts open advising hours for students throughout the semester. Students must consult with an advisor at the start of the program. Every undergraduate student’s application for graduation must be signed by an advisor who has worked with that student and has approved the major program.

Special Programs
See advisors before selecting these programs.

Forensics
A competitive intercollegiate program in policy debate and individual speaking events such as performance of literature, extemporaneous, and persuasive speaking. Director: Teddy Albinak

English Language Arts
Students who wish to teach at the secondary level (grades 7–12) may prepare for the Secondary Credential Program with a subject matter program in English Language Arts. A program that combines communication studies and English courses is available. Advisors: Morris, English Department.

Career Outlook
Graduates in communication studies have an excellent track record entering their chosen career fields and attending graduate and professional schools. Our graduates have secured positions as public relations managers, human resources trainers, employment recruiting specialists, marketing representatives, civil rights activists, campaign managers, and sales representatives, among others. Advisors can assist students in planning programs of study that are attractive to graduate schools and prospective employers.

The department’s internship program has helped many students begin their careers. The program offers over 200 internship and service learning opportunities. Students are encouraged to seek advising from the department’s internship director: Paloma Mathern.

Professors
Busby, Chen, Chung, Kilgard, Merrigan, Sabee, Shimanoff, Tuman, Yep

Associate Professors
Golden, Lovaas, McCormick, Wingard

Assistant Professors
Alaoui, Johnson, Koenig

Major
• Bachelor of Arts in Communication Studies (p. 708)

Minor
• Minor in Communication Studies (p. 717)

Masters
• Master of Arts in Communication Studies (p. 717)
Bachelor of Arts in Communication Studies

Requirements for the Major

Students pursuing a Bachelor of Arts in Communication Studies must complete a 40-unit program consisting of 6-units of lower division courses at the 100 or 200-level or equivalent courses from a transfer institution, one 4-unit GWAR course, 8 upper division units in Rhetorical and Performative Communication, 8 upper division units in Social Context and Interaction in Communication, 8 elective units in Communication Studies with a COMM prefix, 4-units in Communication Inquiry, and a 2-unit Senior Seminar in Communication Studies, taken in the last semester.

Students must successfully complete a GWAR (Graduation Writing Assessment Requirement) class in order to enroll in upper-division Communication Studies courses.

With advisor approval, up to 8 units of lower division transfer courses may be counted toward the major. A maximum of 8 units may be counted toward electives within the major, from any combination of Projects Teaching Communication (COMM 685), Internship (COMM 695), and/or Independent Study (COMM 699). None of these three courses, COMM 685, COMM 695, COMM 699 can be repeated for credit in the major. Any course that is used to fulfill the GE Areas A and B4 requirements (formerly GE Segment I) cannot be counted within the major; however, COMM 150 and ENG 214, or equivalent courses, must be completed as prerequisites to enrollment in any upper-division course in the Communication Studies major.

Communication Studies (B.A.) — 40 units

Introductory Courses (6 units)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 120</td>
<td>Language, Culture, and Power</td>
<td>3</td>
</tr>
<tr>
<td>COMM 220</td>
<td>Introduction to the Performance of Literature</td>
<td>3</td>
</tr>
<tr>
<td>COMM 230</td>
<td>Introduction to Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>COMM 240</td>
<td>Introduction to Nonverbal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 250</td>
<td>Introduction to Group Discussion and Teamwork</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate Writing Assessment Requirement (GWAR) (4 units)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 304GW</td>
<td>Writing About Communication and Masculinities - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 312GW</td>
<td>Writing about Interpersonal Communication - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 321GW</td>
<td>Writing About Communication Theory - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 322GW</td>
<td>Writing About Organizational Communication - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 334GW</td>
<td>Writing About Mediation - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 344GW</td>
<td>Writing About Popular Media - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 348GW</td>
<td>Writing About Environmental Rhetoric - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 361GW</td>
<td>Writing About Social Semiotics - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>COMM 362GW</td>
<td>Writing About Discourse in Interaction - GWAR</td>
<td>4</td>
</tr>
</tbody>
</table>

Social Contexts and Interaction in Communication (8 units)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 502</td>
<td>Interpersonal Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 503</td>
<td>Gender and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 504</td>
<td>Communication and Masculinities</td>
<td>4</td>
</tr>
<tr>
<td>COMM 515</td>
<td>Family Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 522</td>
<td>Organizational Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 525</td>
<td>Sexual Identity and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 527</td>
<td>Health Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 531</td>
<td>Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>COMM 533</td>
<td>Communication and Empowerment in Organizations</td>
<td>4</td>
</tr>
<tr>
<td>COMM 534</td>
<td>Mediation Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>COMM 537</td>
<td>Leadership Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 538</td>
<td>Discourse in Interaction</td>
<td>4</td>
</tr>
<tr>
<td>COMM 541</td>
<td>Critical Approaches to Culture and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 543</td>
<td>Dialogues Across Differences</td>
<td>4</td>
</tr>
<tr>
<td>COMM 544</td>
<td>Communication and Aging</td>
<td>4</td>
</tr>
</tbody>
</table>

Rhetoric and Performance in Communication (8 units)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 551</td>
<td>Persuasion</td>
<td>4</td>
</tr>
<tr>
<td>COMM 552</td>
<td>Women and Words</td>
<td>4</td>
</tr>
<tr>
<td>COMM 553</td>
<td>Oral Interpretation of the First Person Voice</td>
<td>4</td>
</tr>
<tr>
<td>COMM 554</td>
<td>Oral Interpretation of Children's Literature</td>
<td>4</td>
</tr>
<tr>
<td>COMM 555</td>
<td>Ensemble Performance Workshop</td>
<td>4</td>
</tr>
<tr>
<td>COMM 556</td>
<td>Performance Art: Aesthetic Communication Criticism</td>
<td>4</td>
</tr>
<tr>
<td>COMM 559</td>
<td>Theory and Practice in Advanced Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>COMM 560</td>
<td>Political Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 561</td>
<td>Social Semiotics</td>
<td>4</td>
</tr>
<tr>
<td>COMM 564</td>
<td>Issues in Free Speech</td>
<td>4</td>
</tr>
<tr>
<td>COMM 565</td>
<td>Rhetorical Theory</td>
<td>4</td>
</tr>
<tr>
<td>COMM 566</td>
<td>Communication and Social Process</td>
<td>4</td>
</tr>
<tr>
<td>COMM 570</td>
<td>Human Communication and New Technologies</td>
<td>4</td>
</tr>
<tr>
<td>COMM 571</td>
<td>The Rhetoric of Terrorism</td>
<td>4</td>
</tr>
<tr>
<td>COMM 572</td>
<td>Rhetoric of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>COMM 573</td>
<td>The Rhetoric of Criminality and Punishment</td>
<td>4</td>
</tr>
<tr>
<td>COMM 590</td>
<td>Advanced Performance Study</td>
<td>4</td>
</tr>
</tbody>
</table>

Communication Inquiry (4 units)

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 661</td>
<td>Quantitative Methods in Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 662</td>
<td>Critical and Rhetorical Methods in Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 663</td>
<td>Performative Methods in Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 664</td>
<td>LSI Methods in Communication</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (8 units)

Students may select any 8 units of upper-division COMM courses if their corresponding. Students may only apply up to 4 units for each course in the major though some courses are repeatable for credit toward
University electives. Note: All upper-division COMM courses may be used as electives if their corresponding area above is met with other courses.

COMM 368 Forensics 2
COMM 685 Projects in the Teaching of Communication 1-4
COMM 695 Internship/Service Learning in Communication Studies 4
COMM 699 Independent Study 1-4

**Senior Seminar (2 units)**
COMM 670 Seminar in Communication Studies 2

**Complementary Studies**
Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the communication studies major is completion of 12 units from one of the following:

- Partial completion of a second major, minor, or certificate in courses other than COMM, and not cross-listed with COMM.
- A single language other than English.
- A CSU or SF State supported study abroad program. (With advisor approval, some or all of the units taken as part of study abroad may be counted toward units in the major.)
- In one subject (prefix) other than COMM and not cross-listed with COMM.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Social Sciences</th>
<th>LD or UD</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Sciences:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**First Time Student Roadmap (4 Year)**
This roadmap opens in a new tab. (p. 712)

**Transfer Student Roadmap (2 Year)**
For students with an AA-T in Communication Studies. This roadmap opens in a new tab. (p. 715)

**This degree program is an approved pathway ("similar" major) for students earning the ADT in Communication Studies**

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if
minimum eligibility requirements are met, though not necessarily to the
CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation
at SF State, students are guaranteed B.A. or B.S. completion in 60 units
if pursuing a "similar" major after transfer. Determinations about "similar"
majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student
simultaneously pursues an additional major, a minor, certificate, or
credential.

A sample advising roadmap for students who have earned an ADT and
continue in a "similar" major at SF State is available on the Roadmaps tab
and displays:

- How many lower-division units required for the major have been
  completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon
  entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four
  semesters.

Students who have earned an ADT should seek advising in the major
department during the first semester of attendance.

General Advising Information for Transfer
Students

1. Before transfer, complete as many lower division requirements or
electives for this major as possible.
2. The following courses are not required for admission, but are required
   for graduation. Students are strongly encouraged to complete these
   units before transfer; doing so will provide more flexibility in course
   selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and
(2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes
options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements
  for this major, including 2nd-semester composition;
- Which courses at a CCC satisfy CSU GE, US History, and US & CA
  Government.

Remedial courses are not transferable and do not apply to the minimum
60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the
minimum 60 units required for upper division transfer (for example, if
course was not passed on the first attempt, or was taken to earn a better
grade).

Before leaving the last California community college of attendance,
obtain a summary of completion of lower division General Education
units (IGETC or CSU GE Breadth). This is often referred to as a GE
certification worksheet. SF State does not require delivery of this
certification to Admissions, but students should retain this document for
verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or
College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP
examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and
mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to
students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs
or CSUs

Review SF State's lower division General Education requirements.
Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State's lower division GE pattern are
available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking
(GE A3) may not be widely offered outside the CCC and CSU systems.
Students should attempt to identify and take an appropriate course no
later than the term of application to the CSU. To review more information
about the A3 requirement, please visit http://bulletin.sfsu.edu/
undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition
course before transfer. This is usually the next course after the typical
“freshman comp” course, with a focus on writing, reading and critical
analytical skills for academic purposes, and developing skills in
composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets
both US and CA/local government requirements may be an appropriate
option, particularly if transferring from outside of California.

All students must meet the transfer eligibility
requirements outlined below for admission.
For more information, visit the Undergraduate
Admissions section.

- Complete 60 or more transferable semester units or 90 or more
  quarter units
- Earn a college grade point average of 2.00 or better in all transferable
courses. Non-local area residents may be held to a higher GPA
  standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education,
  including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.

d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
## Bachelor of Arts in Communication Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 40

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 150</td>
<td>Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introductory Course (6 units) – Select One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introductory Course (6 units) – Select One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives (8 units)</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>Graduate Writing Assessment Requirement – Select One</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Social Contexts and Interaction in Communication (8 units) – Select One</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-18</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives (8 units)</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td>Social Contexts and Interaction in Communication (8 units) – Select One</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Rhetoric and Performance in Communication (8 units) – Select One</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-18</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Inquiry – Select One</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
Electives (8 units) 6                                      2-4  
Rhetoric and Performance in Communication (8 units) – Select One                                    4  
GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)             3  
Complementary Studies or SF State Studies or University Elective 3                                   3  

<table>
<thead>
<tr>
<th>Units</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

Eighth Semester  
COMM 670 Seminar in Communication Studies 2          
Electives (8 units) 6                                      0-4  
GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)     3  
Complementary Studies or SF State Studies or University Elective – Take Three 3                   9  

<table>
<thead>
<tr>
<th>Units</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

Total Units 16-18

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3 Complementary Studies
Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)
Students who complete two majors or a minor and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the communication studies major is completion of 12 units from one of the following:
   • Partial completion of a second major, minor, or certificate in courses other than COMM, and not cross-listed with COMM.
   • A single language other than English.
   • A CSU or SF State supported study abroad program. (With advisor approval, some or all of the units taken as part of study abroad may be counted toward units in the major.)
   • In one subject (prefix) other than COMM and not cross-listed with COMM.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5 Introductory Course (6 units)
COMM 120 Language, Culture, and Power (3 units)
COMM 220 Introduction to the Performance of Literature (3 units)
COMM 230 Introduction to Argumentation and Debate (3 units)
COMM 240 Introduction to Nonverbal Communication (3 units)
COMM 250 Introduction to Group Discussion and Teamwork (3 units)

6 Electives (8 units)
COMM 368 Forensics (2 units)
COMM 685 Projects in the Teaching of Communication (1-4 units)
COMM 695 Internship/Service Learning in Communication Studies (4 units)
COMM 699 Independent Study (1-4 units)

7 Graduate Writing Assessment Requirement
COMM 304GW Writing About Communication and Masculinities - GWAR (4 units)
COMM 312GW Writing about Interpersonal Communication - GWAR (4 units)
COMM 321GW Writing About Communication Theory - GWAR (4 units)
COMM 322GW Writing About Organizational Communication - GWAR (4 units)
COMM 334GW Writing About Mediation - GWAR (4 units)
COMM 344GW Writing About Popular Media - GWAR (4 units)
COMM 348GW Writing About Environmental Rhetoric - GWAR (4 units)
COMM 361GW Writing About Social Semiotics - GWAR (4 units)
COMM 362GW Writing About Discourse in Interaction - GWAR (4 units)
8 Social Contexts and Interaction in Communication (8 units)
   COMM 502 Interpersonal Communication (4 units)
   COMM 503 Gender and Communication (4 units)
   COMM 504 Communication and Masculinities (4 units)
   COMM 515 Family Communication (4 units)
   COMM 522 Organizational Communication (4 units)
   COMM 525 Sexual Identity and Communication (4 units)
   COMM 527 Health Communication (4 units)
   COMM 531 Conflict Resolution (4 units)
   COMM 533 Communication and Empowerment in Organizations (4 units)
   COMM 534 Mediation Theory and Practice (4 units)
   COMM 537 Leadership Communication (4 units)
   COMM 538 Discourse in Interaction (4 units)
   COMM 541 Critical Approaches to Culture and Communication (4 units)
   COMM 543 Dialogues Across Differences (4 units)
   COMM 544 Communication and Aging (4 units)

9 Rhetoric and Performance in Communication (8 units)
   COMM 551 Persuasion (4 units)
   COMM 552 Women and Words (4 units)
   COMM 553 Oral Interpretation of the First Person Voice (4 units)
   COMM 554 Oral Interpretation of Children's Literature (4 units)
   COMM 555 Ensemble Performance Workshop (4 units)
   COMM 556 Performance Art: Aesthetic Communication Criticism (4 units)
   COMM 559 Theory and Practice in Advanced Public Speaking (4 units)
   COMM 560 Political Communication (4 units)
   COMM 561 Social Semiotics (4 units)
   COMM 564 Issues in Free Speech (4 units)
   COMM 565 Rhetorical Theory (4 units)
   COMM 566 Communication and Social Process (4 units)
   COMM 570 Human Communication and New Technologies (4 units)
   COMM 571 The Rhetoric of Terrorism (4 units)
   COMM 572 Rhetoric of the Environment (4 units)
   COMM 573 The Rhetoric of Criminality and Punishment (4 units)
   COMM 590 Advanced Performance Study (4 units)

10 Communication Inquiry
   COMM 661 Quantitative Methods in Communication (4 units)
   COMM 662 Critical and Rhetorical Methods in Communication (4 units)
   COMM 663 Performative Methods in Communication (4 units)
   COMM 664 LSI Methods in Communication (4 units)
Bachelor of Arts in Communication Studies – COMM Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Communication Studies. Six units (all lower division major requirements) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major GWAR – Select any COMM GW Course</td>
<td></td>
<td>4</td>
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<tr>
<td>Major Area: Social Contexts and Interaction in Communication ¹</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>14</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Area: Social Contexts and Interaction in Communication ¹</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Major Area: Rhetoric and Performance in Communication</td>
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</tr>
<tr>
<td>US History (p. 74)</td>
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<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td>3-4</td>
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<tr>
<td>University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td>16</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>Major Area: Rhetoric and Performance in Communication</td>
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<td>4</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if U.S. and California Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 670</td>
<td>Seminar in Communication Studies</td>
<td></td>
</tr>
<tr>
<td>Major Area: Communication Inquiry</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<td>16</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ Courses in this Major Area that satisfy UD GE: COMM 527 and COMM 531 (UD-D) and COMM 541 (UD-C). If selected, take University electives to replace units.

² If ENG 214 equivalent not completed before transfer, GWAR course must be taken in the second semester.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units): See note 1 above. Some courses satisfy both UD GE and major requirements.
- Students entering this major with the AA-T in Communication Studies are not required to fulfill SF State Studies requirements.
Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Communication Studies Major: 34 Units**

Introductory Courses requirement satisfied in transfer.

- Graduation Writing Assessment Requirement/GWAR (4 units)
- Area Requirements (20 units) consisting of:
  - Social Contexts and Interaction in Communication (8 units)
  - Rhetoric and Performance in Communication (8 units)
  - Communication Inquiry (4 units)

- Electives (8 units): all upper division COMM courses may be used as electives if their corresponding area above is met with other courses.
- Capstone (2 units)

**University Electives: Seven or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Minor in Communication Studies

Select three courses (12 units), each of which is from a different area; select 8 additional units with approval of a minor advisor. With the consent of an advisor, up to 8 units of lower division coursework in communication may be counted toward the minor. However, any course that is used to fulfill GE Areas A and B4 requirements (formerly GE Segment I) cannot be used to fulfill minor requirements.

Communication Studies Minor – 20 units

Breath Areas (12 units)
Select one course each from three of the following breadth areas:

• Communication Inquiry
• Social Contexts and Interaction
• Rhetoric and Performance

Additional Courses (8 units)
Courses in communication on advisement

Master of Arts in Communication Studies

Admission to Program
The requirements for admission are an undergraduate major in communication, a 3.0 or better upper division grade point average, scores on the General Graduate Record Examination, and two letters of reference. Applicants not meeting these criteria may be eligible for conditional admission. Conditions may vary from completing 4 to 16 units of approved undergraduate courses in communication studies to earning a B or better in the initial three graduate courses, including COMM 700. None of the undergraduate units used in fulfilling prerequisites for advancement to classified status may be counted toward the satisfaction of course requirements in the graduate program. GRE scores and letters of recommendation should be sent directly to the graduate coordinator in the department: Dr. Javon Johnson.

Written English Proficiency Requirement

Level One
Students must take the Graduate Record Exam (GRE) analytical writing test prior to applying for admission to the program. Students who achieve a score of 4.0 or higher will have passed the first level graduate writing requirement. Students who achieve a score below 4.0 on the GRE writing test may still be considered for admission to the program, based on the rest of their application materials, but will be required to retake the GRE or complete a department approved writing skills course (conditional admission) before meeting the first level writing requirement.

Level Two
Satisfactory completion of master’s thesis or written comprehensive examination or creative project.

Upper-division courses the department offers may be considered, upon approval of the graduate advisor, except public performance courses.

Communication Studies – Graduate Studies

Mission Statement
We invite students into a life of scholarly inquiry and engaged citizenship with a focus on social justice. We use multiple approaches for advanced study of communication processes to understand complex human problems and discern ethical choices in local and global communities. Our program prepares students for diverse careers that benefit from advanced training in communication including teaching and careers in the public, private, and not-for-profit sectors.

Communication Studies

(M.A.) — Minimum 35 units

Core Requirements (8 units)

COMM 700 Introduction to Graduate Study 4
Select one of the following: 4
COMM 871 Communication Research Strategies
COMM 872 Field Research Strategies
COMM 873 Research Strategies in Language and Social Interaction

Graduate Seminars (16 units)
Courses selected on advisement, must be from COMM 701 - COMM 798

Electives (8 units)
Courses selected on advisement

Culminating Experience (3 units)

Select one of the following:

COMM 894 Creative Work Project 3
COMM 896EXM Culminating Experience Examination 3
COMM 897 Master’s Thesis 3

Note: No more than 8 units may be from upper-division courses regardless of department; no more than 8 units, graduate or undergraduate, may be from an allied department; and no more than 8 units may be in any combination of:

COMM 850 Teaching Communication 4
COMM 851 Internship in Teaching Communication 2
COMM 852 Supervision of Teaching Communication 1
COMM 855 Coaching Forensics 4
COMM 885 Graduate Projects in the Teaching of Communication 4
COMM 899 Independent Study for Investigation in Communication Studies 1-4

No more than 4 units may be listed on the ATC for any combination of COMM 851, COMM 852, or COMM 885.

Master’s Thesis or Creative Work Project

Each candidate who selects the option of a Master’s Thesis or Creative Work Project must submit a written proposal for approval and complete the department’s Description of Proposed Culminating Experience form. After the proposal is approved and a supervising committee of two or more faculty members is established, the Proposal for Culminating Experience Requirement form is signed and filed in the Division of Graduate Studies office. Following the candidate’s successful oral defense of the completed thesis or creative work project, a Final Report of Completion for the Culminating Experience is signed and filed in the Division of Graduate Studies.
**Master's Written Comprehensive Examination**

Each candidate who selects the option of Master's Written Comprehensive Examination must establish a three-member faculty committee and complete the department’s Description of Proposed Culminating Experience form. Next, the Proposal for Culminating Experience Requirement form must be signed and filed in the Division of Graduate Studies. The candidate then enrolls in COMM 896 and COMM 896EXM, and completes the examinations; COMM 896 is offered in the spring semester of each academic year.
COMPARATIVE AND WORLD LITERATURE

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Comparative and World Literature
Humanities Building, Room 377
Phone: (415) 338–2068
Email: wcit@sfsu.edu

Interim Chair: Dane Johnson
Undergraduate Advisors: D. Johnson, S. Khanmohamadi, E. Peel, C. Weinberger
Undergraduate Coordinator: Dane Johnson
Graduate Coordinator: Shirin Khanmohamadi

Program Scope
Comparative Literature is a way of studying world literature. It is a literary discipline designed to go beyond the chronological, geographic, and linguistic boundaries of individual national literatures.

Undergraduate Program
The Bachelor of Arts and Minor in Comparative and World Literature are interdisciplinary programs that provide students with a global perspective through the reading and analysis of literatures from multiple traditions. Students develop a university-level understanding of what different cultures have in common as well as what makes each culture unique. The study of comparative literature also seeks to establish relationships between literature and other fields, from the arts and sciences to folklore and religion. In addition to taking courses in comparative literature and various national literatures (in the original languages and translation), students also learn methods and techniques of literary analysis and comparison.

Graduate Program
The Master of Arts in Comparative Literature combines the objectives of graduate study in foreign languages and literature with an emphasis on the intercultural and international aspects of literature. The goal of the program is to provide graduate training in subjects common to more than one national literature. Research work in the program is directed toward the problems of literary theory and analysis, genre studies, and literary history.

Career Outlook
The B.A. and Minor in Comparative and World Literature are designed for students who wish to gain an interdisciplinary and broad liberal arts education. The undergraduate degree also provides a sound foundation for students who wish to continue work in literature at the graduate level or to pursue graduate study in other areas. Students find that the program provides a rich background for teaching in English, foreign languages and literature, the humanities, and liberal arts, as well as for other varied careers.

The graduate degree in Comparative Literature is of particular value for students who intend to pursue a doctoral degree in comparative literature, English, foreign language and literature, interdisciplinary humanities, or who plan to teach at the middle school, high school, or community college levels.

Professors
Johnson, Peel

Associate Professors
Khanmohamadi, Weinberger

Major
• Bachelor of Arts in Comparative Literature (p. 719)

Minor
• Minor in Comparative Literature (p. 727)

Masters
• Master of Arts in Comparative Literature (p. 727)

Bachelor of Arts in Comparative and World Literature

Advising
To ensure adequate planning of a student’s program, all majors must consult an advisor regularly throughout their undergraduate years. Students who are interested in pursuing a teaching credential in English with a comparative literature emphasis in addition to the B.A. in Comparative Literature should consult the credential requirements section (p. 343) in this Bulletin and meet with an advisor in the Department of Comparative and World Literature.

Student Portfolio
Following departmental guidelines, all students will complete a portfolio prior to graduation.

Students are advised to take CWL 400GW as early as possible in the major.

Comparative and World Literature
(B.A.) — Minimum 39 Units

Core Courses (18 Units)
CWL 400GW Approaches to Comparative and World Literature - 3

GWAR

Select five CWL courses. One course may be a lower division. 15
CWL 214 does not count toward the major.

Program Electives (21 Units)
In consultation with departmental advisors, students select upper-division literature courses that reflect their chosen advising pathway. These courses may be from departments other than CWL (maximum five courses from a single literature).

Note: Up to four courses (12 units) in lower division literature courses may be used toward the total courses/units in the major; two courses (6 units) of these may be in non-CWL literature courses.
Advising Pathways
Comparative Literature:
Students following the Comparative Literature pathway are advised to take courses that meet the following distribution requirements:

- Two courses in a single non-English literary tradition
- One upper-division literature course taught in and focused on a non-English language/literature
- A student-defined area of focus developed in consultation with an advisor

Note: Students following the “Comparative Literature” pathway may count up to three units of a non-literature foreign language course toward their degree.

World Literature:
Students following the World Literature pathway are advised to take CWL 230 and upper division courses that meet the following:

- Courses that combine breadth with a student-defined area of focus developed in consultation with an advisor.
- One course may focus on history or culture from an interdisciplinary perspective, or analysis of alternative media (e.g., painting, music, video games, etc.).

Notes:
1. All students in the Comparative and World Literature major are urged to acquire reading competence in at least one language in addition to English.
2. A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies
Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the comparative literature major is completion of 12 units in a language other than English or in some other group of courses outside the CWL-prefix (and not cross-listed with CWL) that is approved by a major advisor (which may include, but is not limited to, languages other than English, units toward a minor or certificate, study abroad, and literature courses taught in other departments).

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Written English</td>
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<td>3</td>
<td>B1</td>
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<tr>
<td>Communication II</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Lab Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<td>Arts or Humanities</td>
<td>LD</td>
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<td>C1 or C2</td>
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<td>Humanities:</td>
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<tr>
<td>Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<td>Social Sciences:</td>
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<tr>
<td>US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
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<td>Social Sciences:</td>
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<tr>
<td>US &amp; CA</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Government</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lifelong Learning and Self-</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Development (LLD)</td>
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<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
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<td>UD-B</td>
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<tr>
<td>Arts and/or Humanities</td>
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<td>3</td>
<td>UD-C</td>
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<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial</td>
<td>LD or UD</td>
<td>3</td>
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<tr>
<td>Minorities (AERM)</td>
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<td></td>
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<tr>
<td>Environmental Sustainability</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
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<tr>
<td>(ES)</td>
<td></td>
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<tr>
<td>Global Perspectives</td>
<td>LD or UD</td>
<td>3</td>
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<tr>
<td>(GP)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Justice</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(SJ)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.
Transfer Student Roadmap (2 Year)

For students with an AA-T in English or Spanish. This roadmap opens in a new tab. (p. 725)

This degree program is an approved pathway (“similar” major) for students earning the ADT in English or Spanish

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer, doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements.

Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Comparative and World Literature Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>Any Lower Division CWL Course Except CWL 214</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<tr>
<td></td>
<td>Units</td>
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<td><strong>Fifth Semester</strong></td>
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<td>CWL 400GW</td>
<td>Approaches to Comparative and World Literature - GWAR</td>
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<td>Any CWL Course Except CWL 214</td>
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<tr>
<td>Program Electives (21 units) – Take Two</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<td></td>
<td>Units</td>
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<td><strong>Sixth Semester</strong></td>
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<td>Program Electives (21 units) – Take Two</td>
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<td>6</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>3</td>
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<tr>
<td></td>
<td>Units</td>
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<td><strong>Seventh Semester</strong></td>
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<tr>
<td>Program Electives (21 units) – Take Two</td>
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<td>6</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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Complementary Studies or SF State Studies or University Elective 3

<table>
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Eighth Semester

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<td>Program Electives (21 units)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three 3</td>
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<tr>
<td></td>
<td>15</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

   Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the comparative literature major is completion of 12 units in a language other than English or in some other group of courses outside the CWL-prefix (and not cross-listed with CWL) that is approved by a major advisor (which may include, but is not limited to, languages other than English, units toward a minor or certificate, study abroad, and literature courses taught in other departments).

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. **Program Electives (21 Units)**

   In consultation with departmental advisors, students select upper-division literature courses that reflect their chosen advising pathway 5.

   These courses may be from departments other than CWL (maximum five courses from a single literature).

   **Note:** Up to four courses (12 units) in lower division literature courses may be used toward the total courses/units in the major; two courses (6 units) of these may be in non-CWL literature courses.

6. **Advising Pathways**

   **Comparative Literature:**

   Students following the Comparative Literature pathway are advised to take courses that meet the following distribution requirements:

   • Two courses in a single non-English literary tradition
   • One upper-division literature course taught in and focused on a non-English language/literature
   • A student-defined area of focus developed in consultation with an advisor

   **Note:** Students following the "Comparative Literature" pathway may count up to three units of a non-literature foreign language course toward their degree.

   **World Literature:**

   Students following the World Literature pathway are advised to take CWL 230 and upper division courses that meet the following:

   • Courses that combine breadth with a student-defined area of focus developed in consultation with an advisor.
   • One course may focus on history or culture from an interdisciplinary perspective, or analysis of alternative media (e.g., painting, music, video games, etc.).
Bachelor of Arts in Comparative and World Literature – ENGL or SPAN
Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with the AA-T in English OR the AA-T in Spanish. Up to 12 lower division units in the major and all lower division GE requirements have been satisfied. *Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information* (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>CWL 400GW</td>
<td>Approaches to Comparative and World Literature - GWAR (^1)</td>
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<tr>
<td>Major Elective</td>
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</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core</td>
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<td>3</td>
</tr>
<tr>
<td>Major Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if Major Core is Complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

\(^1\) CWL 214 or equivalent AA/2nd year comp course is a prerequisite for CWL 400GW. Completion of 2nd-year comp is assumed for English AA-T students. Spanish AA-T students who have not taken a 2nd-year comp course should do so in the 1st semester after transfer and delay taking CWL 400GW until the following semester.

\(^2\) Also satisfies Major Elective if CWL prefix

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- CWL 214 or equivalent A4 course (0–3 units) – satisfied via completion of English AA-T. *Students with Spanish AA-T: see note 1 above.*
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE (9 units): CWL course approved for UD-C double-counts as a Major Elective.
- Students entering the major with the AA-T in English or in Spanish are not required to fulfill SF State Studies requirements.
Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Comparative and World Literature Major: 27–36 Units**

See department advisor regarding how to apply ADT units to the degree. Up to 12 literature and up to three Spanish language units may be applied.

- Core Courses/GWAR (15–18 units): Up to three units from the ADT (literature) may be applied, if approved.
- Program Electives (12–18 units): Select in consultation with department advisor. Up to nine units from the ADT may be applied, if approved.

**Note:** Students may follow one of two advising pathways: Comparative Literature or World Literature. Consult with a department advisor.

**University Electives: Nine or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Minor in Comparative Literature

Advising. To ensure adequate planning of a student’s program, all minors must consult an advisor at least once per year.

Comparative and World Literature Minor — 18 units
Core Courses (12 units)
CWL 400GW Approaches to Comparative and World Literature - GWAR 3
Select three CWL courses. One course may be a lower division CWL course. (Note: CWL 214 does not count toward the minor.) 9

Electives (6 units)
In consultation with departmental advisors, students select two upper-division literature courses that reflect the breadth of literary studies. These courses may be from departments other than CWL.

Note: Up to two courses (6 units) of lower-division literature courses may be used toward the total units; one course (3 units) of these may come from a non-CWL literature course.

All students in the Comparative and World Literature minor are urged to acquire reading competence in at least one language in addition to English.

Master of Arts in Comparative Literature

Admission to Program
Application requirements:

- An undergraduate major in literature (comparative and/or world literature, English, or any foreign language and literature).
- Grade point average of 3.0 in the undergraduate major or consent of the graduate coordinator.
- Sufficient proficiency in a foreign language/literature taught at the graduate level at SF State (or the University of California, Berkeley) so that the student can take graduate seminars in that language. (Normally, the minimal requisite proficiency is the equivalent of an undergraduate minor in the foreign language.)
- Submit a two to three-page statement of purpose, including information on proficiency in foreign language(s) and literature(s), and an 8–10-page formal writing sample of literary analysis to the Department of Comparative and World Literature.
- Meet the University requirements for Graduate admissions. See Graduate Division website for details on policies, procedures, and required forms www.sfsu.edu/~gradstdy (http://www.sfsu.edu/~gradstdy).

Students with grade or subject matter deficiency may be admitted conditionally and achieve classified status as follows: after appropriate consultation with a graduate advisor, the student will be directed toward courses, totaling 6–12 units, some of which may apply to the M.A., and in which the student must achieve a grade of B (3.0) or better. All conditions must be satisfied before students submit the Advancement to Candidacy (ATC).

Written English Proficiency Requirement
Level One
is satisfied by the writing sample submitted as part of the application process.

Level Two
is satisfied by the final paper in CWL 825.

Advancement to Candidacy
Besides meeting all general requirements for advancement to candidacy, applicants must complete successfully, with a grade of B or higher, the course CWL 800, in which ability to do critical writing will be demonstrated.

Student Portfolio
Following departmental guidelines, all students will complete a portfolio prior to graduation.

Upper division courses offered by the department may be used upon approval of a faculty advisor.

Comparative Literature (M.A.) — Minimum 30 units
Core Requirements (12 units)
CWL 800 Introduction to Graduate Study in Comparative Literature 3
CWL 815 Seminar: Topics in Critical Theory 3
CWL 820 Topics in Comparative Literature 3
CWL 825 Advanced Study in Comparative Literature 3

Foreign Literature Requirement (9 units)
Graduate seminars in a single foreign literature

Note: “Foreign Literature” means a literature and language other than the student’s native language; e.g., a native speaker of Japanese must complete seminars in a literature other than Japanese.

Program Electives (6 units)
Upper-division or graduate courses other than that of the Foreign Literature Requirement. Electives can include courses in English literature, Comparative Literature, Humanities, a second foreign literature read in the original language or in translation, or courses in pedagogy (e.g., courses for the Certificate in the Teaching of Composition).

Culminating Experience (3 units)
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWL 896</td>
<td>Directed Reading in Comparative Literature (and Comprehensive Oral Examination)</td>
<td>3</td>
</tr>
<tr>
<td>CWL 898</td>
<td>Master’s Thesis (and Prospectus)</td>
<td>3</td>
</tr>
</tbody>
</table>

Comprehensive Oral Examination
Upon completion of course work, the student not writing a thesis must pass a comprehensive oral examination administered by a committee of a minimum of two faculty members and based on the departmental reading list and additional authors selected by the student, in consultation with the examination committee.
Master's Thesis and Prospectus

A written and oral presentation of the thesis prospectus is required before the writing of the thesis. The student's committee of a minimum of two faculty members must approve the prospectus.
CONFLICT RESOLUTION

College of Liberal & Creative Arts
Dean: Andrew Harris

College of Business
Dean: Linda Oubre

College of Ethnic Studies
Dean: Kenneth Monteiro

College of Health and Social Sciences
Dean: Alvin Alvarez

Conflict Resolution Program
Humanities Building, Room 289
Coordinator: Christopher Koenig

Program Scope
The purpose of this certificate is to learn to manage conflicting positions in various contexts and to develop constructive ways to engage in dispute management or conflict negotiation. Students may use this certificate to enhance their understanding of the critical role that conflict and its resolution plays in the world today. This certificate would complement degree programs in communication, criminal justice, labor and employment studies, ethnic studies, business, international relations, psychology, political science, and women and gender studies.

Career Outlook
Completion of the certificate contributes to a student's preparation for employment in such fields as counseling, criminal justice, diplomacy, education, government, human resources, international relations, labor, law, management, mediation, public relations, and social work.

Certificate in Conflict Resolution
It is recommended that General Education Areas A and B4 (formerly Segment I) be completed prior to students beginning this program. Students must pass a GWAR course before receiving the certificate.

Note: Courses in the certificate may be substituted on advisement. At least three courses in the certificate must have a prefix that is different from the student's major prefix.

Conflict Resolution, Certificate – 21–37 units

Core Courses (12–18 units)
Introduction to Conflict Resolution
Select 3–4 units from the following:

- COMM 531 Conflict Resolution 4
- PSY 547 Social Conflict and Conflict Resolution 3

Alternative Models of Conflict Resolution
Select 3–4 units from the following:

- AFRS 660 Civil Rights Movement and Education 3
- COMM 534 Mediation Theory and Practice 4
- COMM 543 Dialogues Across Differences 4
- ECON/LABR 511 Collective Bargaining 3

- GPS/I R/PHIL 315 Introduction to Global Peace Studies 3
- GPS/PHIL 375 Peace Law and Human Rights in the U.S. 3
- HUM 366 India's Gandhi 3
- IBUS/ MGMT 659 Introduction to International Business Negotiation 3
- I R 432 Model United Nations 4

Communication Skills
Select 3–4 units from the following:

- COMM 502 Interpersonal Communication 4
- COMM 250 Introduction to Group Discussion and Teamwork 3
- PSY 645 Group Processes 3

Conflict Resolution Internship
Specific course (3–4 units) to be taken for internship with a focus on conflict resolution with placement by advisor.

Area of Emphasis (9–19 units)
One of the emphases listed below.

Emphasis in Family/Culture/Community Issues
Select 9–12 units from the following or the other emphasis on advisement

- AA S 681 Asian American Community Changes and Development 3
- COMM 503 Gender and Communication 4
- COMM 515 Family Communication 4
- COMM 525 Sexual Identity and Communication 4
- COMM 543 Dialogues Across Differences (If not selected in the core) 4
- RRS 571 Women, Class, and Race 3
- PSY 440 Social Psychology 3
- PSY 441 The Psychology of the Family 3
- PSY 455 Cross-Cultural Perspectives in Psychology 3
- PSY 525 Community Psychology 3
- LTNS 680 Latina/o Community Organizing 3
- SOC 464 Families and Society 4
- USP 515/ GEOG 667 Environmental Justice: Race, Poverty, and the Environment 4
- WGS 301 Women, Gender, and Community 3

Emphasis in Legal/Political Issues in the United States
Select 9–19 units chosen from the list below or other emphases on advisement

- AA S 595 Asian American Communities and Public Policy 3
- AFRS 376 Government, the Constitution, and Black Citizens 3
- AFRS 660 Civil Rights Movement and Education (If not selected in the core) 3
- AIS 460 Power and Politics in American Indian History 3
- COMM 564 Issues in Free Speech 4
- C J 300 Criminal Justice: A Cross-Disciplinary Perspective 4
- GPS/PHIL 375 Peace Law and Human Rights in the U.S. (If not selected in the core) 3
- HIST 465 American Ethnic and Racial Relations II: 1890 - Present 3
- LABR/SOC 553 Labor Standards and Corporate Social Responsibility 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTNS 430/</td>
<td>Race, Crime, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>C J 435</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 335</td>
<td>Law and Society</td>
<td>3</td>
</tr>
<tr>
<td>PLSI/ETHS 466</td>
<td>Black Lives Matter: Race and Social Movements</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 553</td>
<td>Legal Issues</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 478</td>
<td>Judicial Process</td>
<td>4</td>
</tr>
<tr>
<td>RRS 600/</td>
<td>History of People of Color in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 466</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USP 513/</td>
<td>Politics, Law, and the Urban Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 66B/</td>
<td></td>
<td></td>
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<tr>
<td>PLSI 513</td>
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</tr>
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</table>

**Emphasis in Labor/Business Issues**

Select 9 units from the list below or the other emphases on advisement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON/LABR</td>
<td>Collective Bargaining (If not selected in the core)</td>
<td></td>
</tr>
<tr>
<td>511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBUS 330</td>
<td>International Business and Multicultural Relations</td>
<td></td>
</tr>
<tr>
<td>IBUS 517</td>
<td>Legal Environment of World Business</td>
<td></td>
</tr>
<tr>
<td>IBUS/ MGMT</td>
<td>Introduction to International Business Negotiation (If not</td>
<td></td>
</tr>
<tr>
<td>659</td>
<td>selected in the core)</td>
<td></td>
</tr>
<tr>
<td>LABR/ANTH 525</td>
<td>Diversity in the Workplace</td>
<td></td>
</tr>
<tr>
<td>LABR/PLSI</td>
<td>Labor and Government</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 461</td>
<td>Introduction to Industrial/Organizational Psychology</td>
<td></td>
</tr>
</tbody>
</table>

**Emphasis in International Issues**

Select 9–12 units from the list below or the other emphases on advisement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 541</td>
<td>Critical Approaches to Culture and Communication</td>
<td>4</td>
</tr>
<tr>
<td>GPS/I R/PHIL</td>
<td>Introduction to Global Peace Studies (If not selected in the</td>
<td>3</td>
</tr>
<tr>
<td>315</td>
<td>core)</td>
<td></td>
</tr>
<tr>
<td>HUM 366</td>
<td>India’s Gandhi (If not selected in the core)</td>
<td>3</td>
</tr>
<tr>
<td>I R 330</td>
<td>World Law</td>
<td>4</td>
</tr>
<tr>
<td>I R/ENVS 331</td>
<td>Global Environmental Crisis</td>
<td>4</td>
</tr>
<tr>
<td>I R 332/C J 505</td>
<td>International Criminal Law</td>
<td>4</td>
</tr>
<tr>
<td>I R 432</td>
<td>Model United Nations (If not selected in the core)</td>
<td>4</td>
</tr>
<tr>
<td>JS/HUM/PHIL</td>
<td>Judaism, Christianity, and Islam</td>
<td>3</td>
</tr>
<tr>
<td>501</td>
<td></td>
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<tr>
<td>JS 560/I R 530</td>
<td>The Arab-Israeli Conflict</td>
<td>3</td>
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<tr>
<td>PHIL 435</td>
<td>Human Rights in Global Perspective</td>
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</tr>
<tr>
<td>SOC 461</td>
<td>Ethnic Relations: International Comparisons</td>
<td>4</td>
</tr>
<tr>
<td>WGS 536</td>
<td>Gender, Globalization, and Women’s Human Rights</td>
<td>3</td>
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<tr>
<td>WGS 571</td>
<td>Gender, Poverty, and Globalization</td>
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</tr>
</tbody>
</table>
CREATIVE WRITING

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Creative Writing
Humanities Building, Room 573
Phone: (415) 338–1891
Email: cwriting@sfsu.edu
Website: http://creativewriting.sfsu.edu

Chair: Nona Caspers
Undergraduate and Graduate Advisors: Carter, Caspers, Chernoff, Conboy, De Robertis, Hoover, Joron, Mirosevich, Ormer, Tigay

Program Scope
The Department of Creative Writing offers undergraduate and graduate programs. The three degree programs emphasize the primary importance of the study and practice of imaginative writing in the genres of creative nonfiction, fiction, literary translation, playwriting, and poetry. All three degree programs combine an intense workshop requirement and a variety of special topic creative process classes with requirements in the English Department. The core literature classes assure that students will continue to absorb and be trained in a study of the best literature of the past. In Creative Writing classes, students work with an active, publishing faculty. They learn by vigorous practice; by focused studies of craft; and by extensive reading, analysis, and discussion of their work, as well as that of published authors.

The undergraduate major combines the academic specifications of the traditional English major with the experiential needs of the writing student. Students who enter this program should do so only under the strongly held assumption that they have abilities as writers that may be fostered and trained by such a discipline as is described here. It is hoped that this combined program of writing and literature will lead students to a cohesive study and discipline that combines breadth with intensity.

Accordingly, some greater latitude of choice in literature courses is allowed in the creative writing major. Studies will lead them to a degree in English with a creative writing emphasis. Ample guidance of the creative writing advisors helps insure that students will not be deprived of a sense of the history of literature. In this regard they will continue to be fully qualified as potential graduate students in English as well as prepared should they wish to continue as M.A. or M.F.A. candidates in a creative writing program.

The two graduate programs differ in scope. Both programs are distinguished by innovative classes. Both include seminars, opportunities for community projects, and a thesis. Students may apply for admission to either the Master of Arts in English with Concentration in Creative Writing (30 units) or the Master of Fine Arts in Creative Writing (54 units). In no case will a student be admitted to both programs simultaneously.

The Master of Arts in English with Concentration in Creative Writing serves a double purpose: to extend and broaden the student’s familiarity with literature and to provide the help of a faculty of professional writers and critics in developing the student’s own potential as a professional writer. The Creative Writing Department has a strong core faculty and invites several visiting faculty each semester.

The Master of Fine Arts in Creative Writing is regarded as the terminal degree in the field. The M.F.A. in Creative Writing offers extended experience in small seminars and in individual instruction with faculty. It also develops the student’s understanding of the history and theory of literature and incorporates correlative patterns of study in elective areas such as other cultures, other arts, technical studies, and/or the teaching of writing.

Career Outlook
The career goal is to train and encourage writers of creative nonfiction, fiction, literary translation, plays, and poetry. Many celebrated and distinguished writers are graduates of the department. In the job market, good writers are hard to find. The skills developed in creative writing translate well into corporate editing, publishing, teaching, and working for arts organizations.

Professors
Carter, Caspers, Chernoff, Conboy, Hoover, Mirosevich, Ormer

Assistant Professors
De Robertis, Joron, Tigay

Lecturers
Bellamy, Davison, de la Perrière, Dickson, Galjour, Kim, Phillips, Tomash, Tran

Major
• Bachelor of Arts in English: Concentration in Creative Writing (p. 731)

Masters
• Master of Arts in English: Concentration in Creative Writing (p. 744)
• Master of Fine Arts in Creative Writing (p. 744)

Bachelor of Arts in English: Concentration in Creative Writing

GWAR (Graduation Writing Assessment Requirement) is satisfied for the English major, Concentration in Creative Writing by completion of one of the following courses:
C W 511GW, C W 512GW, or C W 513GW. Completion of C W 301 and second year written composition (ENG 214 or equivalent) with a grade of C− or better is a prerequisite for C W 511GW or C W 512GW or C W 513GW.

English (B.A.): Concentration in Creative Writing — 42 units

A. (6 units)
Fundamentals of Creative Writing and Fundamentals of Creative Reading; both are prerequisites to all other Creative Writing courses; C W 302 is prerequisite to ENG 460, ENG 461, ENG 462, and all other upper division English literature courses. C W 302 must be taken at SF State; upon completion of C W 302, courses from sections E. and F. may be taken at any time. C W 301 and C W 302 may be taken concurrently:
C W 301 Fundamentals of Creative Writing 3
C W 302  Fundamentals of Creative Reading  3

**B. (3 units)**
Course in the Craft Area selected from the following (must be taken after C W 301 and C W 302 and BEFORE workshop course).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C W 511GW</td>
<td>Craft of Poetry - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>C W 512GW</td>
<td>Craft of Fiction - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>C W 513GW</td>
<td>Craft of Playwriting - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

**C. (15 units)**
Courses in the Creative Process Area and/or Workshop Areas selected from the following (One of these courses must be chosen from variable topic process courses C W 510 OR C W 600. Seek advising for substitution):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C W 506</td>
<td>The Business of Creative Writing (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 507</td>
<td>Writing on the Body (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 508</td>
<td>Introduction to Environmental Literature</td>
<td>3</td>
</tr>
<tr>
<td>C W 510</td>
<td>The Creative Process (creative process) 1</td>
<td>3</td>
</tr>
<tr>
<td>C W 514</td>
<td>Contemporary World Poetry (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 520</td>
<td>Writers on Writing (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 550</td>
<td>Poetry Center Workshop (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 600</td>
<td>Special Topics in Writing (workshop) 1</td>
<td>3</td>
</tr>
<tr>
<td>C W 602</td>
<td>Playwriting (workshop) 2</td>
<td>3</td>
</tr>
<tr>
<td>C W 603</td>
<td>Short Story Writing (workshop) 2</td>
<td>3</td>
</tr>
<tr>
<td>C W 604</td>
<td>Poetry Writing (workshop) 2</td>
<td>3</td>
</tr>
<tr>
<td>C W/TH A 605</td>
<td>Writing and Performing Monologues (workshop) 2</td>
<td>3</td>
</tr>
<tr>
<td>C W 609</td>
<td>Directed Writing for B.A. Students (workshop) 3</td>
<td>3</td>
</tr>
<tr>
<td>C W 640</td>
<td>Transfer Literary Magazine (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 675</td>
<td>Community Projects in Literature (creative process) 2</td>
<td>3</td>
</tr>
<tr>
<td>C W 685</td>
<td>Projects in the Teaching of Creative Writing (creative process)</td>
<td>3</td>
</tr>
<tr>
<td>C W 699</td>
<td>Independent Study (creative process or workshop) 1-3</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 305</td>
<td>Latina/o Studies Creative Writing Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

**D. Capstone Course (3 units)**
C W 601  Work in Progress (to be taken in either semester of last year)  3

**E. (9 units)**
Courses in the Literature Area, one course to be selected from three of the following four groups.

**American Literature**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 645</td>
<td>Literature of the Harlem Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENG 525</td>
<td>Studies in American Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>ENG 526</td>
<td>Age of the American Renaissance: 1830-1860</td>
<td>3</td>
</tr>
<tr>
<td>ENG 527</td>
<td>American Literature: 1860-1914</td>
<td>3</td>
</tr>
<tr>
<td>ENG 528</td>
<td>American Literature: 1914-1960</td>
<td>3</td>
</tr>
</tbody>
</table>

**Literature in English Surveys or Age (of)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART/HUM 405</td>
<td>Art, Literature, and Power in the Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 501</td>
<td>Age of Chaucer</td>
<td>3</td>
</tr>
<tr>
<td>ENG 503</td>
<td>Studies in Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 510</td>
<td>The Age of Wit</td>
<td>3</td>
</tr>
<tr>
<td>ENG 512</td>
<td>18th Century British Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 514</td>
<td>Age of the Romantics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 516</td>
<td>Age of the Victorians</td>
<td>3</td>
</tr>
<tr>
<td>ENG 521</td>
<td>Studies in 20th Century English Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>ENG 522</td>
<td>Irish Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 614</td>
<td>Women in Literature: Authors and Characters 1</td>
<td>3</td>
</tr>
<tr>
<td>ENG 630</td>
<td>Selected Studies 1</td>
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</table>

**The Genre**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENG 465</td>
<td>Post-Apocalyptic Science Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 524</td>
<td>Contemporary American Short Story</td>
<td>3</td>
</tr>
<tr>
<td>ENG 550</td>
<td>The Rise of the Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 552</td>
<td>Modern British Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 553</td>
<td>Classic American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 554</td>
<td>Modern American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 555</td>
<td>The Short Story</td>
<td>3</td>
</tr>
<tr>
<td>ENG 558</td>
<td>Early Twentieth Century Poetry in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENG 559</td>
<td>Middle and Late Twentieth Century Poetry in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENG 570</td>
<td>Medieval and Renaissance Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 571</td>
<td>Shakespeare's Rivals</td>
<td>3</td>
</tr>
<tr>
<td>ENG 573</td>
<td>American Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 574</td>
<td>Modern British Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 612</td>
<td>Serial Narrative</td>
<td>3</td>
</tr>
<tr>
<td>ENG 630</td>
<td>Selected Studies 1</td>
<td>3</td>
</tr>
<tr>
<td>HUM 550</td>
<td>The Art of Autobiography</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 490</td>
<td>Latina/o Teatro Workshop</td>
<td>3</td>
</tr>
<tr>
<td>MGS/CWL/C W 465</td>
<td>Modern Greek Poetry in Comparative Perspective 3</td>
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**Individual Authors**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ENG 580</td>
<td>Individual Authors 1</td>
<td>3</td>
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<tr>
<td>ENG 581</td>
<td>Jane Austen</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td>ENG 589</td>
<td>Milton</td>
<td>3</td>
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</tbody>
</table>

**F. (3 units)**
Three units selected from Writing from the American Experience or Global Literatures in English (substitution may be made with advisor's approval).

**Global Literatures in English**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHIN 600</td>
<td>Topics in Chinese Language, Literature, and Culture in English</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 601GW</td>
<td>The Poetic Tradition - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 602</td>
<td>The Narrative Tradition in English</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 611GW</td>
<td>The Revolutionary Tradition in Modern Chinese Literature - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 410/ HUM 401</td>
<td>Ancient Greek Literature</td>
<td>3</td>
</tr>
</tbody>
</table>
Thought and Image: Humanities

Writing from the American Experience

AA S 322 Chinese American Language and Literature
AA S 332 Japanese American Art and Literature
AA S 352 Filipina/o American Literature, Art, and Culture
AA S 372 Vietnamese American Literature
AA S 512 Asian American Children’s/Adolescent Literature
AA S 582 Asian American Women’s Literature and the Arts

AFRS 400 Black Arts and Humanities
AFRS 411 African and African American Literature
AIS 360 Modern American Indian Authors

CLAS 415/ HUM 402 Ancient Roman Literature
CWL 420 Studies in Comparative Literature 1
CWL/HUM 423 Going Medieval: Comparative Medieval European Literature
CWL/HUM 424 Multicultural Middle Ages
CWL 432/ HUM 532 From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts
OWL 440 “Typical American”: Narratives of Multiculturalism in the Americas from 1492 to the Present
CWL 450 Literary Crossings
CWL 520 Modern Prose of the Americas
ENG 565 The Short Story: Global Literature in English
ENG 630 Selected Studies 1
ENG 631 Post-Colonial Literature in English
ENG 632 The Literature of Exile and Migration
ENG/SXS 633 Gay Love in Literature
ENG 636 Greek and Roman Myth and Modern Literature
ENG 658 South African Literature
ETHS/ARAB 400 Islam and Fiction in English
GER 613 Weimar Literature in English
GER 616 Postwar German Literature in English: The Past as Present
JS/CWL 437/ ENG 533 Holocaust and Literature
JS/ENG/CWL 451 Jewish Literature of the Americas
JS/CWL 480 European Writers
LTNS 560 Contemporary Latina/o Literature
LTNS 679 Central American Literature: Roots to the Present
MGS/ENG 380 British and American Travellers to Greece
MGS/CWL/ENG 452 Forster, Durrell, and Cavafy
MGS/CWL/C W 465 Modern Greek Poetry in Comparative Perspective
MGS/C W 497 Modern Greek Literature
RRS 360 Cultural Dialogues and Ethnic Literature
SPAN 492 Early Transatlantic Literature and Culture

Writing from the American Experience

AA S 322 Chinese American Language and Literature
AA S 332 Japanese American Art and Literature
AA S 352 Filipina/o American Literature, Art, and Culture
AA S 372 Vietnamese American Literature
AA S 512 Asian American Children’s/Adolescent Literature
AA S 582 Asian American Women’s Literature and the Arts

AFRS 400 Black Arts and Humanities
AFRS 411 African and African American Literature
AIS 360 Modern American Indian Authors

Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

G. (3 units)
Three units selected from Theory and Language Studies:

**Theory and Language Studies**

AFRS 646 Frantz Fanon’s Psychology of Violence, Negation, and Liberation
ENG 401 Introduction to Writing Studies
ENG 418 Grammar for Writers
ENG 420 Introduction to the Study of Language
ENG 422 History of the English Language
ENG 429 Stylistics
ENG 475 Fundamentals of Literary Analysis
ENG 495 Digital Humanities and Literacies
ENG 535 Literature and Ecology
ENG 600 Theory of Literature
ENG 601 Literature and Psychology
ENG 602 Literature and Society
ENG 606 History of Criticism from the Eighteenth Century to the Present
ENG 611 Modern Criticism
ENG 614 Women in Literature: Authors and Characters 1
ENG 615 Imagery, Metaphor, and Symbol
ENG 630 Selected Studies 1
HUM 390 Images of Eroticism
HUM 410 The Modern Revolution
HUM 415 Contemporary Culture
HUM 425 Thought and Image: Humanities
HUM/PHIL 432 Nietzsche and Postmodernism

1 May be repeated for credit when topics vary.
2 May be taken for two semesters of credit.
3 May be taken for three semesters of credit.
recognized in the major list of any or all of the following prefixes: ENG, AFRS, CWL, LTNS, WGS, HUM, AAS, MGS, or AIS.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Global Perspectives (GP) LD or UD 3
Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

**First Time Student Roadmap (4 Year)**

This roadmap (p. 736) opens in a new tab.

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in English. This roadmap opens in a new tab. (p. 742)

This degree program is an approved pathway (“similar” major) for students earning the ADT in English

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in English: Concentration in Creative Writing Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 42

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3–4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15–16</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3–4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15–16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
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<td>9</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>C W 301</td>
<td>Fundamentals of Creative Writing</td>
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<tr>
<td>C W 302</td>
<td>Fundamentals of Creative Reading</td>
<td>3</td>
</tr>
<tr>
<td>Literature Course (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Theory and Language Studies – Select One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GWAR Course – Select One</td>
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<tr>
<td>C W 511 GW</td>
<td>Craft of Poetry - GWAR</td>
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</tr>
<tr>
<td>C W 512 GW</td>
<td>Craft of Fiction - GWAR</td>
<td></td>
</tr>
<tr>
<td>C W 513 GW</td>
<td>Craft of Playwriting - GWAR</td>
<td></td>
</tr>
<tr>
<td>Literature Course (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing from the American Experience or Global Literatures in English (3 units)</td>
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<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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### Seventh Semester

<table>
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<tr>
<td>C W 510 or C W 600</td>
<td>The Creative Process or Special Topics in Writing</td>
<td>3</td>
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<tr>
<td>Literature Course (9 units)</td>
<td></td>
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<tr>
<td>Creative Process Area and/or Workshop Area (15 units)</td>
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<td>3</td>
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<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
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</tbody>
</table>

| Total Units | 15 |

### Eighth Semester

<table>
<thead>
<tr>
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<td>C W 601</td>
<td>Work in Progress</td>
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<tr>
<td>Creative Process Area and/or Workshop Area (15 units) – Take Three</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Units | 15 |

| Total Units | 120-122 |

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies requirements** (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**
   - Bachelor of Arts students must complete at least 12 units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)
   - Creative Writing majors will satisfy this requirement from within the major by taking 15 units of literature classes required in the major, which are recognized in the major list of any or all of the following prefixes: ENG (p. 1543), AFRS (p. 1369), CWL (p. 1465), LTNS (p. 1653), WGS (p. 1793), HUM (p. 1605), AAS (p. 1397), MGS (p. 1677), or AIS (p. 1375).
   - Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Literature
Courses in the Literature Area, one course to be selected from three of the following four groups.

American Literature
AFRS 645 Literature of the Harlem Renaissance (3 units)
ENG 525 Studies in American Literature (3 units)
ENG 526 Age of the American Renaissance: 1830-1860 (3 units)
ENG 527 American Literature: 1860-1914 (3 units)
ENG 528 American Literature: 1914-1960 (3 units)

Literature in English Surveys or Age (of)
ART 405 Art, Literature, and Power in the Renaissance (3 units)
ENG 460 Literature in English I: Beginnings through the 17th Century (3 units)
ENG 461 Literature in English II: 18th and 19th Centuries (3 units)
ENG 462 Literature in English III: The Twentieth Century (3 units)
ENG 501 Age of Chaucer (3 units)
ENG 503 Studies in Medieval Literature (3 units)
ENG 510 The Age of Wit (3 units)
ENG 512 18th Century British Women Writers (3 units)
ENG 514 Age of the Romantics (3 units)
ENG 516 Age of the Victorians (3 units)
ENG 521 Studies in 20th Century English Literature (3 units)
ENG 522 Irish Literature (3 units)
ENG 614 Women in Literature: Authors and Characters (3 units)
ENG 630 Selected Studies (3 units)

The Genre
ENG 465 Post-Apocalyptic Science Fiction (3 units)
ENG 524 Contemporary American Short Story (3 units)
ENG 550 The Rise of the Novel (3 units)
ENG 552 Modern British Novel (3 units)
ENG 553 Classic American Novel (3 units)
ENG 554 Modern American Novel (3 units)
ENG 555 The Short Story (3 units)
ENG 558 Early Twentieth Century Poetry in the United States (3 units)
ENG 559 Middle and Late Twentieth Century Poetry in the United States (3 units)
ENG 570 Medieval and Renaissance Drama (3 units)
ENG 571 Shakespeare's Rivals (3 units)
ENG 573 American Drama (3 units)
ENG 574 Modern British Drama (3 units)
ENG 612 Serial Narrative (3 units)
ENG 630 Selected Studies (3 units)
HUM 550 The Art of Autobiography (3 units)
LTNS 490 Latina/o Teatro Workshop (3 units)
MGS 465 Modern Greek Poetry in Comparative Perspective (3 units)

Individual Authors
ENG 580 Individual Authors (3 units)
ENG 581 Jane Austen (3 units)
ENG 583 Shakespeare: Representative Plays (3 units)
ENG 584 Shakespeare: Selected Plays (3 units)
ENG 589 Milton (3 units)
Theory and Language Studies
AFRS 646 Frantz Fanon’s Psychology of Violence, Negation, and Liberation (3 units)
ENG 401 Introduction to Writing Studies (3 units)
ENG 418 Grammar for Writers (3 units)
ENG 420 Introduction to the Study of Language (3 units)
ENG 422 History of the English Language (3 units)
ENG 429 Stylistics (3 units)
ENG 475 Fundamentals of Literary Analysis (3 units)
ENG 495 Digital Humanities and Literacies (3 units)
ENG 535 Literature and Ecology (3 units)
ENG 600 Theory of Literature (3 units)
ENG 601 Literature and Psychology (3 units)
ENG 602 Literature and Society (3 units)
ENG 606 History of Criticism from the Eighteenth Century to the Present (3 units)
ENG 611 Modern Criticism (3 units)
ENG 614 Women in Literature: Authors and Characters (3 units)
ENG 615 Imagery, Metaphor, and Symbol (3 units)
ENG 630 Selected Studies (3 units)
HUM 390 Images of Eroticism (3 units)
HUM 410 The Modern Revolution (3 units)
HUM 415 Contemporary Culture (3 units)
HUM 425 Thought and Image: Humanities (3 units)
HUM 432 Nietzsche and Postmodernism (3 units)
Writing the American Experience or Global Literatures in English
Three units selected from Writing from the American Experience or Global Literatures in English (substitution may be made with advisor’s approval).

Global Literatures in English
CHIN 600 Topics in Chinese Language, Literature, and Culture in English (3 units)
CHIN 601GW The Poetic Tradition - GWAR (3 units)
CHIN 602 The Narrative Tradition in English (3 units)
CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR (3 units)
CLAS 410 Ancient Greek Literature (3 units)
CLAS 415 Ancient Roman Literature (3 units)
CWL 420 Studies in Comparative Literature (3 units)
CWL 423 Going Medieval: Comparative Medieval European Literature (3 units)
CWL 424 Multicultural Middle Ages (3 units)
CWL 432 From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts (3 units)
CWL 440 "Typical American": Narratives of Multiculturalism in the Americas from 1492 to the Present (3 units)
CWL 450 Literary Crossings (3 units)
CWL 520 Modern Prose of the Americas (3 units)
ENG 565 The Short Story: Global Literature in English (3 units)
ENG 630 Selected Studies (3 units)
ENG 631 Post-Colonial Literature in English (3 units)
ENG 632 The Literature of Exile and Migration (3 units)
ENG 633 Gay Love in Literature (3 units)
ENG 636 Greek and Roman Myth and Modern Literature (3 units)
ENG 637 Experimental Novel: 1950-1980 (3 units)
ENG 658 South African Literature (3 units)
ETHS 400 Islam and Fiction in English (3 units)
GER 613 Weimar Literature in English (3 units)
GER 616 Postwar German Literature in English: The Past as Present (3 units)
JS 437 Holocaust and Literature (3 units)
JS 451 Jewish Literature of the Americas (3 units)
JS 460 European Jewish Writers (3 units)
LTNS 560 Contemporary Latina/o Literature (3 units)
LTNS 679 Central American Literature: Roots to the Present (3 units)
MGS 380 British and American Travellers to Greece (3 units)
MGS 452 Forster, Durrell, and Cavafragi (3 units)
MGS 465 Modern Greek Poetry in Comparative Perspective (3 units)
MGS 497 Modern Greek Literature (3 units)
RRS 360 Cultural Dialogues and Ethnic Literature (3 units)
SPAN 492 Early Transatlantic Literature and Culture (3 units)

Writing from the American Experience
AA S 322 Chinese American Language and Literature (3 units)
AA S 332 Japanese American Art and Literature (3 units)
AA S 352 Filipina/o American Literature, Art, and Culture (3 units)
AA S 372 Vietnamese American Literature (3 units)
AA S 512 Asian American Children’s/Adolescent Literature (3 units)
AA S 582 Asian American Women’s Literature and the Arts (3 units)
AFRS 400 Black Arts and Humanities (3 units)
AFRS 411 African and African American Literature (3 units)
AIS 360 Modern American Indian Authors (3 units)
CWL 540 Faulkner, García Márquez, and Morrison (3 units)
ENG 525 Studies in American Literature (3 units)
ENG 630 Selected Studies (3 units)
ENG 614 Women in Literature: Authors and Characters (3 units)
HUM 470 American Autobiography (3 units)
JS 546 20th Century American Jewish Women Writers (3 units)
LTNS 305 Latina/o Studies Creative Writing Workshop (3 units)
LTNS 455 Resistance Literature of the Americas (3 units)
LTNS 560 Contemporary Latina/o Literature (3 units)
MGS 397 Greek American Literature (3 units)
RRS 312 Arab and Arab American Literary Expressions (3 units)
WGS 541 Women Writers and Social Change (3 units)
WGS 548 Literature by U.S. Women of Color (3 units)
Creative Process Area and/or Workshop Area
C W 506 The Business of Creative Writing (3 units)
C W 507 Writing on the Body (3 units)
C W 508 Introduction to Environmental Literature (3 units)
C W 514 Contemporary World Poetry (3 units)
C W 520 Writers on Writing (3 units)
C W 550 Poetry Center Workshop (3 units)
C W 602 Playwriting (3 units)
C W 603 Short Story Writing (3 units)
C W 604 Poetry Writing (3 units)
C W 605 Writing and Performing Monologues (3 units)
C W 609 Directed Writing for B.A. Students (3 units)
C W 640 Transfer Literary Magazine (3 units)
C W 675 Community Projects in Literature (3 units)
C W 685 Projects in the Teaching of Creative Writing (3 units)
C W 699 Independent Study (1-3 units)
LTNS 305 Latina/o Studies Creative Writing Workshop (3 units)
Bachelor of Arts in English: Concentration in Creative Writing – ENGL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in English. Up to three units in the major and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>C W 301</td>
<td>Fundamentals of Creative Writing</td>
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<tr>
<td>C W 302</td>
<td>Fundamentals of Creative Reading</td>
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<tr>
<td>Major (Theory and Language Studies)</td>
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<td>U.S. and California Government (p. 75)</td>
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<td>or University Elective if US/CA Government met before transfer</td>
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<td>University Elective</td>
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<td><strong>Second Semester</strong></td>
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<td>Select One:</td>
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<td>C W 511GW</td>
<td>Craft of Poetry - GWAR</td>
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<td>C W 512GW</td>
<td>Craft of Fiction - GWAR</td>
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<td>C W 513GW</td>
<td>Craft of Playwriting - GWAR</td>
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<td>Major (Literature) – Take Two</td>
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<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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</tr>
<tr>
<td>US History (p. 74)</td>
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<tr>
<td>or University Elective if US History met before transfer</td>
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<td></td>
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<td><strong>Units</strong></td>
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<td><strong>Third Semester</strong></td>
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<td>Major (Creative Process and/or Workshop) – Take Two</td>
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<tr>
<td>Major (Literature)</td>
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<tr>
<td>Major (Writing from the American Experience or Global Literature in English)</td>
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<td>3</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td>C W 510 or C W 600</td>
<td>The Creative Process</td>
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<tr>
<td>C W 601</td>
<td>or Special Topics in Writing</td>
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<td>Work in Progress</td>
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<td>Major (Creative Process and/or Workshop) – Take Two</td>
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<td><strong>Total Units</strong></td>
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1 Capstone course may be taken in either semester of final year.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–15 Units
- ENG 214 or equivalent A4 course (0 units): satisfied via completion of English AA-T
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units): Check for courses in major that also satisfy UD GE.
- Students entering this major with the AA-T in English are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Creative Writing Major: 39–42 Units**
Check with a department advisor to see if three lower division units from ADT can be applied to the major.

• Fundamentals (3–6 units): C W 301 and C W 302
• Craft (3 units): C W 511GW or C W 512GW or C W 513GW, taken after fundamentals and before workshop
• Creative Process Area and/or Workshop Areas (15 units): Must include C W 510 or C W 600
• Courses in Literature – upper division (9 units): to be taken after C W 302
• Writing from the American Experience or Global Literatures (3 units)
• Theory and Language Studies (3 units)
• Capstone Course (3 units): C W 601 – must be taken in last year

**University Electives: Three or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Master of Arts in English: Concentration in Creative Writing

Admission to the Program
Students interested in this program must submit a meaningful sample of their writing (15 to 20 pages of creative nonfiction or fiction, or 15–20 pages of literary translation, or a full-length stage play or two short plays, or 15 to 20 poems), two letters of recommendation, and transcripts, along with the Creative Writing Department application form. Submissions should be sent to the Creative Writing Office by January 15 for the fall semester. Applicants from graduate creative writing programs at other colleges or universities may transfer six units to the M.A. program, on review and recommendation of the Creative Writing Admissions Committee and approval of the Division of Graduate Studies. For further clarification, contact the Creative Writing Department. Students accepted into the program with an undergraduate major that is not English are accepted conditionally. Admission to the M.A. does not imply admission to the M.F.A. Students who wish to earn both degrees must finish the M.A. before beginning the M.F.A. degree.

Written English Proficiency Requirement
Level One (Pre-admission)
Statement of purpose (500–1500 words) and writing sample (15 to 20 pages of creative nonfiction or fiction, or 15–20 pages of literary translation, or a full-length stage play or two short plays, or 15 to 20 poems) scored 8.0 or higher on a scale of one to ten based on the following criteria:

1. fluency and precision of expression;
2. ability to embody and illustrate ideas creatively; and
3. appropriateness of the applicant’s interests, life experiences and goals to the program.

Level Two
Satisfactory completion of C W 893MA on the following criteria: thesis deemed by two faculty readers to be publishable in part or whole (book, chapbook and/or literary journals).

Selected upper division courses offered by the department may be used for the master’s degree upon approval of a departmental advisor. Enrollment is not required in the semester of graduation.

English (M.A.): Concentration in Creative Writing – Minimum 30 units
Program (9 units)
Writing courses selected from the following:

- C W 803 Advanced Short Story Writing
- C W 804 Advanced Poetry Writing
- C W 807 Developing the Novel
- C W 808 Novel Writing
- C W 809 Directed Writing for Graduate Students
- C W 899 Independent Study

Creative Process (9 units)
Creative process courses selected from the following:

- C W 785 Graduate Projects in the Teaching of Creative Writing
- C W 806 The Business of Creative Writing
- C W 810 Seminar in the Creative Process
- C W 814 Contemporary World Poetry
- C W 820 Writers on Writing
- C W 825 Playwright’s Theatre Workshop
- C W 840 Fourteen Hills Theatre Workshop
- C W 850 Poetry Center Workshop
- C W 859 Practicum in Teaching
- C W 860 Teaching Creative Writing
- C W 866 Craft of Translation
- C W 875 Community Projects in Literature
- C W 899 Independent Study

Upper Division/Graduate Literature Courses (9 units)
Courses in the English, Comparative and World Literature, or Theatre Arts Departments, to be taken on advisement.

Culminating Experience (3 units)
- C W 893MA Written M.A. Creative Project

Master of Fine Arts in Creative Writing

Admission to the Program
Students interested in this program must submit a meaningful sample of their writing (15 to 20 pages of fiction or creative nonfiction, or 15 to 20 pages of literary translation, or a full-length stage play or two short plays, or 15 to 20 poems), two letters of recommendation, and transcripts, along with the Creative Writing Department application form. Submissions should be sent to the Creative Writing Office by January 15 for the fall semester.

Applicants from creative writing programs at other colleges or universities may transfer nine units to the M.F.A. program, on review and recommendation of the Creative Writing Admissions Committee and approval of the Division of Graduate Studies. For further clarification, contact the Creative Writing Department.

Students in the Master of Arts in English with Concentration in Creative Writing at SF State who wish to enter the M.F.A. program are required to apply for admission and are subject to the same admission standards as are all other applicants. For students entering with an earned M.A. in English: Creative Writing from SF State, the M.F.A. is a 30 unit degree as described below.

Enrollment priority in M.F.A. classes is given to classified M.F.A. students accepted in the genre of the course.
Written English Proficiency Requirement
Level One
Statement of purpose (500–1500 words) and writing sample (15 to 20 pages of fiction or creative nonfiction, or 15 to 20 pages of literary translation, or a full-length stage play or two short plays, or 15 to 20 poems) scored 8.0 or higher on a scale of one to 10 based on the following criteria:

1. fluency and precision of expression;
2. ability to embody and illustrate ideas creatively; and
3. appropriateness of the applicant's interests, life experiences and goals to the program.

Level Two
Satisfactory completion of C W 893MFA on the following criteria: work deemed by two faculty readers to be publishable as a book and evaluated along the following criteria:

1. ability to use the craft of the art form to illustrate ideas, vision, and imagination creatively, using fresh, precise language;
2. ability to suggest, via the craft to the art form, a subtext and themes that display the writers' complex relationship with her/his ideas, vision, imagination, and form (story, poem, dramatic monologue and/or play); and
3. mastery of at least one genre form per the above.

Selected upper division courses offered by the department may be used for the degree upon approval of a department advisor. Enrollment is not required in the semester of graduation.

Master of Fine Arts in Creative Writing – Minimum 54 Units
Writing Workshops at the M.F.A. Level (6 Units)
Select a minimum of 6 units in the genre of admission selected from the following:

C W 852  MFA Workshop in Creative Nonfiction  3
C W 853  M.F.A. Workshop in Fiction  3
C W 854  M.F.A. Workshop in Poetry  3
C W 855  M.F.A. Workshop in Playwriting  3
C W 856  M.F.A. Workshop in Short Plays  3

M.A./M.F.A. Level Creative Process Directed Writing/Special Study/Writing Workshops (12 Units)
Select 12 units from the following:

C W 785  Graduate Projects in the Teaching of Creative Writing  3
C W 803  Advanced Short Story Writing  3
C W 804  Advanced Poetry Writing  3
C W 806  The Business of Creative Writing  3
C W 807  Developing the Novel  3
C W 808  Novel Writing  3
C W 809  Directed Writing for Graduate Students  3
C W 810  Seminar in the Creative Process  3
C W 814  Contemporary World Poetry  3
C W 820  Writers on Writing  3
C W 825  Playwright’s Theatre Workshop  3
C W 840  Fourteen Hills Literary Magazine  3

C W 850  Poetry Center Workshop  3
C W 852  MFA Workshop in Creative Nonfiction  3
C W 853  M.F.A. Workshop in Fiction  3
C W 854  M.F.A. Workshop in Poetry  3
C W 855  M.F.A. Workshop in Playwriting  3
C W 856  M.F.A. Workshop in Short Plays  3
C W 859  Practicum in Teaching  3
C W 860  Teaching Creative Writing  3
C W 866  Craft of Translation  3
C W 867  Theory of Translation  3
C W 875  Community Projects in Literature  3
C W 899  Independent Study  3

Creative Process Courses at the M.F.A. Level. (6 Units)
Select 6 units in the genre of admission from the following:

C W 880  M.F.A. Craft and Process Tutorial in Fiction  3
C W 881  M.F.A. Craft and Process Tutorial in Poetry  3
C W 882  M.F.A. Craft and Process Tutorial in Playwriting  3

Literature or Theatre Arts Courses or Graduate Creative Process Courses (12 Units)
Upper division/graduate (300 level and above) literature courses in the English or Comparative and World Literature or Theater Arts Departments, to be taken on advisement, with the consent of an M.F.A. advisor.

Theater Arts courses include:

TH A 401  Theatre Backgrounds: 500 B.C. - 1642  3
TH A 660  Advanced Play Development Workshop  3
TH A 705  Playcrafting and Dramaturgy  3

Graduate Creative Writing process courses include:

C W 785  Graduate Projects in the Teaching of Creative Writing  3
C W 806  The Business of Creative Writing  3
C W 810  Seminar in the Creative Process  3
C W 814  Contemporary World Poetry  3
C W 820  Writers on Writing  3
C W 825  Playwright’s Theatre Workshop  3
C W 840  Fourteen Hills Literary Magazine  3
C W 850  Poetry Center Workshop  3
C W 859  Practicum in Teaching  3
C W 860  Teaching Creative Writing  3
C W 866  Craft of Translation  3
C W 867  Theory of Translation  3
C W 875  Community Projects in Literature  3
C W 880  M.F.A. Craft and Process Tutorial in Fiction  3
C W 881  M.F.A. Craft and Process Tutorial in Poetry  3
C W 882  M.F.A. Craft and Process Tutorial in Playwriting  3
C W 899  Independent Study  3

Correlative courses related to the candidate's interests (12 Units)
To be taken upon advisement from an M.F.A. advisor. Sequences and patterns are especially appropriate. The English Department's certificate
in the teaching of reading and composition is an option in this sequence. For students planning a culminating project in playwriting, the following courses in Theatre Arts are acceptable:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>TH A 660</td>
<td>Advanced Play Development Workshop</td>
<td>3</td>
</tr>
<tr>
<td>TH A 705</td>
<td>Playcrafting and Dramaturgy</td>
<td>3</td>
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Other correlative tracks include careers in Creative Writing:

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Graduate Projects in the Teaching of Creative Writing</td>
<td>3</td>
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<tr>
<td>C W 806</td>
<td>The Business of Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>C W 840</td>
<td>Fourteen Hills Literary Magazine</td>
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<tr>
<td>C W 875</td>
<td>Community Projects in Literature</td>
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</tbody>
</table>

Teaching Creative Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C W 785</td>
<td>Graduate Projects in the Teaching of Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>C W 859</td>
<td>Practicum in Teaching</td>
<td>3</td>
</tr>
<tr>
<td>C W 860</td>
<td>Teaching Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>C W 875</td>
<td>Community Projects in Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Book Arts (under development with the Art Department), and a different genre than the student's own within the department. A poet, for instance, can have a fiction correlative. More specialized correlatives in other areas of study pertaining to the student's interests as a writer can also be taken in consultation with an advisor.

**Culminating Experience (6 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C W 893MFA</td>
<td>Written M.F.A. Creative Work</td>
<td>6</td>
</tr>
</tbody>
</table>

Priority in M.F.A. classes is given to classified M.F.A. students accepted in the genre of the course, with the exceptions of C W 854, which is open to both M.A. and M.F.A. students whose emphasis is Poetry, as well as C W 855 and C W 856, which are open to both M.A. and M.F.A. students whose emphasis is Playwriting.

For students with a B.A. degree, the M.F.A. degree is 54 units as stated above.

For students with an earned M.A. in English: Concentration in Creative Writing from SF State, the M.F.A. degree requires an additional 30 units composed of the following elements:

**M.F.A.-level workshops**

Select 6 units in the genre of admission from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C W 853</td>
<td>M.F.A. Workshop in Fiction</td>
<td>3</td>
</tr>
<tr>
<td>C W 854</td>
<td>M.F.A. Workshop in Poetry</td>
<td>3</td>
</tr>
<tr>
<td>C W 855</td>
<td>M.F.A. Workshop in Playwriting</td>
<td>3</td>
</tr>
<tr>
<td>C W 856</td>
<td>M.F.A. Workshop in Short Plays</td>
<td>3</td>
</tr>
</tbody>
</table>

**M.F.A.-level Creative Processes Classes**

Select 6 units in the genre of admission from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C W 880</td>
<td>M.F.A. Craft and Process Tutorial in Fiction</td>
<td>3</td>
</tr>
<tr>
<td>C W 881</td>
<td>M.F.A. Craft and Process Tutorial in Poetry</td>
<td>3</td>
</tr>
<tr>
<td>C W 882</td>
<td>M.F.A. Craft and Process Tutorial in Playwriting</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 units from the Correlative Area listed above

1 May be repeated for credit when topics vary.

2 May be taken for two semesters of credit.

3 May be taken for three semesters of credit.

4 May be taken for six semesters of credit.
CRITICAL SOCIAL THOUGHT

College of Liberal & Creative Arts
Dean: Andrew Harris

Critical Social Thought Program
Humanities Building, Room 304
Phone: (415) 338–2247
Coordinator: James Martel

Program Scope
Critical social theory challenges contemporary forms of political-economic power. In classes and internships, the Minor in Critical Social Thought program draws from Marxism, socialism, anarchism, the Frankfurt School, radical environmentalism and anti-consumerism, postmodernism and post-structuralism, globalization studies, feminism, queer theory, postcolonial and subaltern studies, disability studies, critical race theory, theories of art and visual representation and other systems of thought that pay attention to the questions of power and exploitation in world politics, culture, economics and the formation of identities.

The minor seeks to address the way that so much of contemporary social thought is uncritical. It is guided by the belief that a better world is possible and that social thought has an important role in outlining the form such a world might take and identifying the agents who might be capable of bringing it about.

Applications
Critical social thought serves as a foundation in critical theory that can be applied to a variety of disciplines in the social sciences, humanities and the arts. Critical social thought can be pursued in conjunction with any number of majors enriching and diversifying these fields of study including but not limited to sociology, human sexuality studies, psychology, history, philosophy, women and gender studies, Latina/Latino studies, ethnic studies, political science, international relations, criminal justice, etc. In addition, critical social thought can help establish skills that will be useful in post-graduate careers ranging from careers in social activism and social work to politics, law, health care, policy and many others.

Professors
Biella, Carrillo, D'Agostino, M. Ferreira, Kassiola, Luft, Martel, Nichols, Oñate, Pinderhugues, Quesada, Rivera, Schechter, Steier

Associate Professor
Gordy

Each student shall, in consultation with a faculty advisor, develop an individual program of 15–19 units. Students may also take an internship program in political activism or other related areas in conjunction with these classes to count towards the minor. If the introductory course is not available, other courses can be substituted on advisement.

Critical Social Thought, Minor – 15–19 units
Introduction (3 units)
Overview of the tradition of critical social thought

CST 300/
PLSI 386
Introduction to Critical Social Thought 3

Core – Theory and Pedagogy (6–8 units)
Select at least two courses of the following:
HUM 410 The Modern Revolution 3
PHIL 330 Political Philosophy 3
PLSI 351GW Political Theory: The Classical Tradition - GWAR 4
PLSI 353 Political Theory: The Twentieth Century 4
PLSI/PHIL 355 Politics and Ethics of the Consumer Society 3
PLSI 360 Development of American Political Thought 4
SOC 394 Sociological Field Methods 4
SOC 272 Social Inequality: Poverty, Wealth, and Privilege 4

Electives (6–8 units)
Choose at least two courses from at least two of the following fields:
• Identity and Resistance
• Globalism, Empire, and Social Movements
• Culture as Critical Social Thought

An approved internship may be substituted for 3–4 units of electives.

Identity and Resistance (3–4 units)
ANTH/CAST 320 Racism: Cross-Cultural Analysis 3
ANTH 569/
SXS 567 Cross-Cultural Aspects of Sex and Gender 3
ANTH/CAST 590/
WGS 595 Anthropology of Women 3
GPS/PHIL 375 Peace Law and Human Rights in the U.S. 3
HUM 360 Styles of African Cultural Expression 3
HUM 415 Contemporary Culture 3
HUM/LTNS 520 North and South American Cultural Expression 3
LTNS 415 Economic Progress of Latinos in the U.S. 3
PLSI 381 Political Theories of Sexuality 4
SXS 455 Sex, Power and Politics 3

Globalism, Empire, and Social Movements (3–4 units)
ANTH/CAST 585 Globalization and World Cultures 3
GPS/I R/PHIL 315 Introduction to Global Peace Studies 3
HIST 386 Soviet Russia, the West, and the Cold War 3
HIST 390 Era of the World Wars 1918 to 1945 3
HIST 400 History of Modern European Imperialism 3
HIST 476 American Environmental History 3
HIST 550 Social Change in Modern Latin America 3
I R 520 Globalization and Development 4
LTNS/WGS 445 Gendered Borders: Latinas and Globalization 3
PHIL 435 Human Rights in Global Perspective 3
PLSI 354 Politics, the Environment, and Social Change 4
PLSI/I R 417 Gender, Equality, and Politics: A Comparative Perspective 4
USP 514 Sustainable Development in Cities 4
USP 515/
GEOG 667 Environmental Justice: Race, Poverty, and the Environment 4
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH/CINE 327</td>
<td>Anthropology and Film</td>
<td>3</td>
</tr>
<tr>
<td>ART 403/ SXS 405</td>
<td>Queer Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 501</td>
<td>Western Art: Special Areas (Art and Politics of the 20th Century)</td>
<td>3</td>
</tr>
<tr>
<td>ART 501</td>
<td>Western Art: Special Areas (Postmodernism: Art of the 1980s)</td>
<td>3</td>
</tr>
<tr>
<td>ART 501</td>
<td>Western Art: Special Areas (Women and Art: 20th-21st Centuries)</td>
<td>3</td>
</tr>
<tr>
<td>BECA/WGS 485</td>
<td>Women and Media</td>
<td>3</td>
</tr>
<tr>
<td>CINE 305/JS 405</td>
<td>Film and the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>CINE 308</td>
<td>Third Cinema</td>
<td>3</td>
</tr>
<tr>
<td>CINE 373</td>
<td>Film and Society</td>
<td>3</td>
</tr>
<tr>
<td>CINE 342</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>DANC 350</td>
<td>Dance Aesthetics: Cultural/Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>MUS 505</td>
<td>Music of the World’s Peoples</td>
<td>3</td>
</tr>
<tr>
<td>MUS 511</td>
<td>The Roots of Rock</td>
<td>3</td>
</tr>
<tr>
<td>COMM 525</td>
<td>Sexual Identity and Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 590</td>
<td>Advanced Performance Study</td>
<td>4</td>
</tr>
<tr>
<td>TH A 407</td>
<td>Popular Theatre/Popular Entertainment</td>
<td>3</td>
</tr>
<tr>
<td>TH A 691</td>
<td>Advanced Multicultural Production Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>
DANCE

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Theatre and Dance
Creative Arts Building, Room 103
Phone: (415) 338–1341
Website: theatredance.sfsu.edu (http://theatredance.sfsu.edu)

Director: Todd Roehrman
Undergraduate Advisors: Performance/Choreography: Ray Tadio, Yutian Wong

Program Scope
The focus of the dance program in the School of Theatre and Dance is to study dance as an art form. The Bachelor of Arts in Dance provides professional preparation in dance and an opportunity to study dance performance, choreography, teaching, and dance theory. The goal of the program is to help students develop strong foundational skills and knowledge necessary for a variety of professional careers. SF State dancers have established their own companies, performed with professional companies, developed careers in K-12 education or supplemented their education with work in private dance or Pilates studios. Graduates have also successfully completed graduate dance studies at major institutions. Students with a major other than dance should investigate both the Minor in Dance and the Minor in World Music and Dance that is offered in the School of Music.

The B.A. is organized into three components: Core, Dance Technique, and Emphasis Electives. Majors must complete a 17-unit core covering basic studies, the body as instrument, and aesthetics and history. Choices are available in the core to gear the student toward their chosen emphasis.

Technique electives offer the student a variety of styles and can be repeated for credit to optimize conditioning and development of expression. A minimum of 12 units of technique classes must be chosen, with 9 units selected from numbers above 200. The faculty recognize that most major students surpass the minimum technique credit level. Students must audition for placement into technique level and can progress to the next level with the consent of the instructor. Students in choreography and performance commonly study two technique areas each semester or study dance conditioning or Pilates in conjunction with technique.

Individualized emphasis electives should be chosen according to career goals in consultation with an advisor. These courses have been chosen and optimally organized for students who wish to pursue dance performance and choreography. Upper division technique courses may be repeated in the emphasis of performance/choreography or musical theatre up to a maximum of 6 units. Three units may be elected from another area of the university with consent of the major advisor. Students should consider the following as culminating experiences in the major: DANC 461 or DANC 399.

Dance Program Concerts
The dance program produces two concerts annually. The New Moves Student Choreography Showcase, and the University Dance Theatre.

• The New Moves Choreography Showcase debuts the work of advanced choreography students. The performance emphasizes the creative process of students experimenting with contemporary choreography and movement exploration. Many lower division majors and minors audition the first week of the fall term to perform in this show.

• The University Dance Theatre is a year-long repertory course for the advanced and versatile dancers. UDT is considered to be the pre-professional performance training company. Acceptance in the company is by audition-only. UDT work with faculty and guest choreographers to learn repertory during the fall semester. The company performs on tour throughout the academic year culminating in the mainstage production in McKenna Theatre and at the American College Dance Festival.

Facilities
Dance facilities are located in three different buildings on campus. The two primary dance-teaching spaces are GYM 146 and Creative Arts 102. Adjacent to the large gym studio is a rehearsal room GYM 123. Locker rooms are available in the Creative Arts Building, near the studio, or in the gymnasium. Dance concerts are primarily held in McKenna Theatre, a 700-seat house in the Creative Arts Building. Informal performances are presented in Knuth Hall and in the Studio, Creative Arts Building, Room 102.

Career Outlook
Career options for dance majors are very diverse. Majors graduating from this program move into a variety of dance-related areas including: performance; choreography; musical theatre work; and teaching in public schools, private studios, and community centers. Other dance-related careers include the completion of certification programs in Pilates/dance conditioning and other somatic practices. SF State's graduates have also been accepted into graduate schools for MFA and doctoral work. Individuals also apply their knowledge and skills gained from the study of dance to careers in arts administration and other related work in non-profit organizations.

The San Francisco Bay Area has a very active and vibrant dance, music, and theatre community with many performance ensembles, training centers, concerts, and arts service organizations. There are many ways for graduates to become involved in this larger dance and arts community.

Teaching opportunities are available throughout the region in private and public schools, private studios, and recreation centers. The State of California requires a teaching credential for employment in the public schools and views dance as a subject area in the field of physical education. To earn a credential, students must follow the subject matter program in physical education with a concentration in dance, a program developed from the B.A. in Dance and from courses in kinesiology. Consult a dance advisor and the credentials page of this Bulletin (p. 28) for credential information.

Associate Professors
Tadio, Wong

Assistant Professor
Davis

Lecturers
Crowley, Diamond, McCarthy
Majors
- Bachelor of Arts in Dance (p. 750)
- Subject Matter Program in Physical Education-Concentration in Dance (p. 536)
(coordinated with Department of Kinesiology)

Minor
- Minor in Dance (p. 756)

Bachelor of Arts in Dance
The Bachelor of Arts in Dance is designed to provide training in dance with an opportunity to emphasize dance performance, choreography, or teaching. The major is organized around a 20 unit core, a minimum of 12 technique units, and 13 units of emphasis electives. Emphasis area courses in dance, music, and related fields should be chosen according to career goals in consultation with an advisor. New majors and minors must take the placement audition on the advising day at the beginning of each semester and/or designated days each semester. It is mandatory that students consult with their advisor on a semester basis and maintain a grade point average of 2.0.

Dance (B.A.) — 45 units
Core Requirements (20 units)

<table>
<thead>
<tr>
<th>Basic Studies</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 170 Integrated Dance Technique I</td>
<td>2</td>
</tr>
<tr>
<td>DAN 232 Dance Composition: Choreography I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 300GW Dance Organizational Strategies and Field Topics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>DAN 304 Issues in Dance Medicine I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 311 Alignment/Pilates Mat</td>
<td>1</td>
</tr>
<tr>
<td>MUS 120 Basic Music I</td>
<td>1</td>
</tr>
<tr>
<td>TH A 313 Lighting and Sound Laboratory and Crew</td>
<td>2</td>
</tr>
</tbody>
</table>

Aesthetics and History
Selected one of the following | 3     |
| DAN 350 Dance Aesthetics: Cultural/Historical Perspectives | 2     |
| DAN 430 Historical Survey of Dance in the Western World | 2     |

Dance Technique (12 units)
Select from the following. At least nine units must be 200 or above with no more than four units from one course, except with advisor’s approval.

<table>
<thead>
<tr>
<th>Dance Technique</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 163 Ballet I</td>
<td>1</td>
</tr>
<tr>
<td>DAN 173 Modern Dance I</td>
<td>1</td>
</tr>
<tr>
<td>DAN 176 Modern Jazz Dance I</td>
<td>1</td>
</tr>
<tr>
<td>DAN 207 Dance in Cultural Context</td>
<td>1</td>
</tr>
<tr>
<td>DAN 263 Ballet II</td>
<td>2</td>
</tr>
<tr>
<td>DAN 275 Modern Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DAN 276 Modern Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DAN 311 Alignment/Pilates Mat</td>
<td>1</td>
</tr>
<tr>
<td>DAN 312 Alignment Study/Pilates Mat 2-3</td>
<td>1</td>
</tr>
<tr>
<td>DAN 363 Ballet III</td>
<td>2</td>
</tr>
<tr>
<td>DAN 374 Modern Dance III</td>
<td>2</td>
</tr>
<tr>
<td>DAN 376 Modern Jazz Dance III</td>
<td>2</td>
</tr>
</tbody>
</table>

DANC 400 Workshop in Contemporary Dance | 1     |
DANC 402 Workshop in Jazz/Musical Theatre Dance | 1     |
DANC 474 Modern Dance IV | 2     |
DANC 699 Independent Study | 1-3    |

Emphasis Electives (13 units)
These courses are optimally organized for Performance/Choreography or teaching. Courses selected may be from either emphasis area and aligned with career goals. Six units of technique courses numbered 300 or above may be repeated in this section for credit. Other DANC (p. 1492), TH A (p. 1782), and MUS (p. 1684) prefix courses may be used with advisor’s approval. Three units may be selected from other areas of the university with consent of major advisor.

Dance Performance and Choreography

<table>
<thead>
<tr>
<th>Dance Performance and Choreography</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 310 Dance Conditioning/Pilates</td>
<td>3</td>
</tr>
<tr>
<td>DANC 312 Alignment Study/Pilates Mat 2-3</td>
<td>1</td>
</tr>
<tr>
<td>DANC 340 Creative Process in Dance for Children</td>
<td>3</td>
</tr>
<tr>
<td>DANC 399 University Dance Theatre (consecutive fall-spring semesters, 4 units total)</td>
<td>2</td>
</tr>
<tr>
<td>DANC 416 Advanced Contemporary Dance Repertory and Skills</td>
<td>1</td>
</tr>
<tr>
<td>DANC 434 Dance Composition: Choreography II</td>
<td>3</td>
</tr>
<tr>
<td>DANC 461 Advanced Choreography and Production</td>
<td>3</td>
</tr>
<tr>
<td>DANC 463 Performance in Dance Production</td>
<td>1</td>
</tr>
<tr>
<td>DANC 560 Supervised Experience in Dance Education</td>
<td>3</td>
</tr>
<tr>
<td>DANC/ANTH 657 Ethnology of Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANC 699 Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

World Cultures
Select a minimum of four units in MUS

<table>
<thead>
<tr>
<th>World Cultures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 207 Dance in Cultural Context</td>
<td>1</td>
</tr>
<tr>
<td>DANC 236 Folklore of Dance: African-Haitian</td>
<td>2</td>
</tr>
<tr>
<td>DANC/ETHS/ MUS 545 Traditional Kulintang Music and Dance of the Southern Philippines</td>
<td>3</td>
</tr>
<tr>
<td>DANC/ANTH 657 Ethnology of Dance</td>
<td>3</td>
</tr>
<tr>
<td>MUS 386 World Music Ensembles</td>
<td>1</td>
</tr>
<tr>
<td>MUS 388 Jazz Combos</td>
<td>1</td>
</tr>
<tr>
<td>MUS 505 Music of the World’s Peoples</td>
<td>3</td>
</tr>
<tr>
<td>MUS 530 Musics of the Middle East and India</td>
<td>3</td>
</tr>
<tr>
<td>MUS 531 Musics of North and Southeast Asia</td>
<td>3</td>
</tr>
<tr>
<td>MUS 542GW Ethnomusicology - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Complementary Studies
Bachelor of Arts students must complete at least twelve units of complementary studies outside of the primary prefix for the major. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the Dance major can, with the approval of a Dance Program advisor, satisfy Complementary Studies in the major with 12 units in a single foreign language of their choosing, 12 units from courses taken in a study abroad program, 12 units of courses taken as partial completion of a second major, minor or certificate, or 12 units of courses in related disciplines.
Related disciplines typically include theater, music, cinema, broadcast and electronic communications, creative writing, journalism, kinesiology, physical education, health education, holistic health, biology, elementary education, English, history, anthropology, business, and journalism. The dance program allows up to 12 units of dance-related disciplines to count toward the dance major.

1 Students may take MUS 601 in lieu of MUS 120.

2 Students in the Performance/Choreography Emphasis will typically select from DANC 304, DANC 350, and DANC 430. Students in the Musical Theatre Emphasis will typically select from MUS 612 and TH A 403. Students in World Cultures will typically select DANC 350 and MUS 612.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies may be upper or lower division in General Education (GE), in a major or minor, or an elective.

**Environmental Sustainability (ES)**  LD or UD  3
**Global Perspectives (GP)**  LD or UD  3
**Social Justice (SJ)**  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

### First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 753)

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AIEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Dance Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAN 170</td>
<td>Integrated Dance Technique I</td>
<td>2</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Basic Music I</td>
<td>3</td>
</tr>
<tr>
<td>Dance Technique (12 Units Total) – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
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<tr>
<td>DAN 232</td>
<td>Dance Composition: Choreography I</td>
<td>3</td>
</tr>
<tr>
<td>Dance Technique (12 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
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<tr>
<td>Complementary Studies – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td><strong>Units</strong></td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<td>DAN 300GW</td>
<td>Dance Organizational Strategies and Field Topics - GWAR</td>
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<tr>
<td>DAN 304</td>
<td>Issues in Dance Medicine I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 311</td>
<td>Alignment/Pilates Mat</td>
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<tr>
<td>TH A 205</td>
<td>Introduction to Technical Theatre and Design</td>
<td>2</td>
</tr>
<tr>
<td>TH A 313</td>
<td>Lighting and Sound Laboratory and Crew</td>
<td>2</td>
</tr>
<tr>
<td>Dance Technique (12 Units Total)</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>DAN 350 or DAN 430</td>
<td>Dance Aesthetics: Cultural/Historical Perspectives or Historical Survey of Dance in the Western World</td>
<td>3</td>
</tr>
<tr>
<td>Dance Technique (12 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Emphasis Electives (13 Units Total) – Take Two</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

753
GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) 3

**Seventh Semester**

Emphasis Electives (13 Units Total) – Take Three 6
Complementary Studies or SF State Studies or University Elective – Take Two 4

Units 15

**Eighth Semester**

Emphasis Electives (13 Units Total) – Take as Many as Needed to Reach 13 Units 6
GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective – Take One to Three 4

Units 16

Total Units 120-121

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your major or GE courses.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Students may take MUS 601 in lieu of MUS 120.
4. **Complementary Studies: Bachelor of Arts Degrees**
   Bachelor of Arts students must complete at least twelve units of Complementary Studies outside of the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement. Students earning Bachelor of Music or Bachelor of Science degrees do not have to complete the Complementary Studies requirement. Details about Complementary Studies can be found in the Bulletin description for each B.A. degree.
5. **Dance Technique**
   DANC 163
   DANC 173
   DANC 176
   DANC 207 Dance in Cultural Context (1 units)
   DANC 263 Ballet II (2 units)
   DANC 275 Modern Dance II (2 units)
   DANC 276 Modern Jazz Dance II (2 units)
   DANC 311 Alignment/Pilates Mat (1 units)
   DANC 312 Alignment Study/Pilates Mat 2-3 (1 units)
   DANC 363 Ballet III (2 units)
   DANC 374 Modern Dance III (2 units)
   DANC 376 Modern Jazz Dance III (2 units)
   DANC 400 Workshop in Contemporary Dance (1 units)
   DANC 402 Workshop in Jazz/Musical Theatre Dance (1 units)
   DANC 474 Modern Dance IV (2 units)
   DANC 699 Independent Study (1-3 units)
These courses are optimally organized for Performance/Choreography or teaching. Courses selected may be from either emphasis area and aligned with career goals. Six units of technique courses numbered 300 or above may be repeated in this section for credit. Other DANC (p. 1492), TH A (p. 1782), and MUS (p. 1684) prefix courses may be used with advisor’s approval. Three units may be selected from other areas of the university with consent of major advisor.

**Dance Performance and Choreography Emphasis**

- DANC 310 Dance Conditioning/Pilates (3 units)
- DANC 312 Alignment Study/Pilates Mat 2-3 (1 unit)
- DANC 340 Creative Process in Dance for Children (3 units)
- DANC 399 University Dance Theatre (2 units)
- DANC 416 Advanced Contemporary Dance Repertory and Skills (1 units)
- DANC 434 Dance Composition: Choreography II (3 units)
- DANC 461 Advanced Choreography and Production (3 units)
- DANC 463 Performance in Dance Production (1 units)
- DANC 560 Supervised Experience in Dance Education (1-3 units)
- ANTH 657 Ethnology of Dance (3 units)
- DANC 699 Independent Study (1-3 units)

**World Cultures Emphasis**

Select a minimum of four units in MUS

- DANC 207 Dance in Cultural Context (1 units)
- DANC 236 Folklore of Dance: African-Haitian (2 units)
- MUS 545 Traditional Kulintang Music and Dance of the Southern Philippines (3 units)
- ANTH 657 Ethnology of Dance (3 units)
- MUS 386 World Music Ensembles (1 units)
- MUS 388 Jazz Combos (1 units)
- MUS 505 Music of the World’s Peoples (3 units)
- MUS 530 Musics of the Middle East and India (3 units)
- MUS 531 Musics of North and Southeast Asia (3 units)
- MUS 542GW Ethnomusicology - GWAR (3 units)
Minor in Dance

The Minor in Dance consists of a core curriculum of four courses (8 units) plus 10 units taken from a list of electives on advisement. A total of 9 units in the minor must be upper division. Students seeking the minor in Dance must take the placement audition for the study of technique and pass into the next higher level of technique with permission of the instructor. Other dance courses not on this list may be used as electives. Students should take special care to follow prerequisites for upper division courses:

DANC 304 Issues in Dance Medicine I 3
DANC 340 Creative Process in Dance for Children 3
DANC 434 Dance Composition: Choreography II 3
DANC 461 Advanced Choreography and Production 3

For specific dates and times of the placement audition, please contact the School of Theatre and Dance at 415-338-1431 or http://theatredance.sfsu.edu/

Dance Minor – 18 units

Core Requirements (8 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 170</td>
<td>Integrated Dance Technique I</td>
<td>2</td>
</tr>
<tr>
<td>DANC 311</td>
<td>Alignment/Pilates Mat</td>
<td>1</td>
</tr>
<tr>
<td>or DANC 350</td>
<td>Dance Aesthetics: Cultural/Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>or DANC 657</td>
<td>Ethnology of Dance</td>
<td></td>
</tr>
<tr>
<td>TH A 313</td>
<td>Lighting and Sound Laboratory and Crew</td>
<td>2</td>
</tr>
<tr>
<td>or TH A 312</td>
<td>Costuming and Makeup Laboratory and Crew</td>
<td></td>
</tr>
</tbody>
</table>

Electives (10 units)

Choose from the following:

Other DANC courses may be substituted on advisement. Units from core courses not used to fulfill core requirements in any of the areas listed above may be taken as electives.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 170</td>
<td>Integrated Dance Technique I</td>
<td>2</td>
</tr>
<tr>
<td>DANC 163</td>
<td>Ballet I</td>
<td>1</td>
</tr>
<tr>
<td>DANC 173</td>
<td>Modern Dance I</td>
<td>1</td>
</tr>
<tr>
<td>DANC 176</td>
<td>Modern Jazz Dance I</td>
<td>1</td>
</tr>
<tr>
<td>DANC 207</td>
<td>Dance in Cultural Context</td>
<td>1</td>
</tr>
<tr>
<td>DANC 232</td>
<td>Dance Composition: Choreography I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 263</td>
<td>Ballet II</td>
<td>2</td>
</tr>
<tr>
<td>DANC 275</td>
<td>Modern Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DANC 276</td>
<td>Modern Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DANC 300GW</td>
<td>Dance Organizational Strategies and Field Topics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>DANC 304</td>
<td>Issues in Dance Medicine I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 310</td>
<td>Dance Conditioning/Pilates</td>
<td>3</td>
</tr>
<tr>
<td>DANC 311</td>
<td>Alignment/Pilates Mat</td>
<td>1</td>
</tr>
<tr>
<td>DANC 312</td>
<td>Alignment Study/Pilates Mat 2-3</td>
<td>1</td>
</tr>
<tr>
<td>DANC 316</td>
<td>Dunham Dance Technique</td>
<td>2</td>
</tr>
<tr>
<td>DANC 340</td>
<td>Creative Process in Dance for Children</td>
<td>3</td>
</tr>
<tr>
<td>DANC 363</td>
<td>Ballet III</td>
<td>2</td>
</tr>
<tr>
<td>DANC 374</td>
<td>Modern Dance III</td>
<td>2</td>
</tr>
<tr>
<td>DANC 376</td>
<td>Modern Jazz Dance III</td>
<td>2</td>
</tr>
<tr>
<td>DANC 399</td>
<td>University Dance Theatre (4 units total)</td>
<td>2</td>
</tr>
<tr>
<td>DANC 400</td>
<td>Workshop in Contemporary Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 402</td>
<td>Workshop in Jazz/Musical Theatre Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 416</td>
<td>Advanced Contemporary Dance Repertory and Skills</td>
<td>1</td>
</tr>
<tr>
<td>DANC 434</td>
<td>Dance Composition: Choreography II</td>
<td>3</td>
</tr>
<tr>
<td>DANC 461</td>
<td>Advanced Choreography and Production</td>
<td>3</td>
</tr>
<tr>
<td>DANC 463</td>
<td>Performance in Dance Production</td>
<td>1</td>
</tr>
<tr>
<td>DANC 474</td>
<td>Modern Dance IV</td>
<td>2</td>
</tr>
<tr>
<td>DANC 490</td>
<td>Dance Theatre Workshop</td>
<td>1-3</td>
</tr>
<tr>
<td>DANC 560</td>
<td>Supervised Experience in Dance Education</td>
<td>3</td>
</tr>
<tr>
<td>DANC 657</td>
<td>Ethnology of Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANC 685</td>
<td>Projects in the Teaching of Dance</td>
<td>1-3</td>
</tr>
<tr>
<td>DANC 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>
DESIGN AND INDUSTRY

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Design
Fine Arts Building, Room 121
Phone: (415) 338-2211
Website: http://design.sfsu.edu
Email: design@sfsu.edu

Interim Director: Christina Sabee
Visual Communication Design Program Coordinator: Josh Singer
Industrial Design Program Coordinator: Silvan Linn
Graduate Program Coordinator: Hsiao-Yun Chu
Study Abroad Coordinators: Hsiao-Yun Chu, Ricardo Gomes

Program Scope
The School of Design offers a Bachelor of Science in Visual Communication Design, a Bachelor of Science in Industrial Design with a concentration in Product Design and Development, a Minor in Industrial Arts, and a Master of Arts in Design.

The Bachelor of Science in Visual Communication Design (BSVCD) is a program for students who intend to focus their studies on visual communication design applications relative to graphic design and digital media. The major addresses a changing technological landscape and the resulting new opportunities for education and the profession in the realm of visual communication design. The design major prepares students for design study, research and practice, as well as flexible collaboration with other disciplines involving technology, user experience, and creative problem-solving.

The Bachelor of Science in Industrial Design with Concentration in Product Design and Development (BSID/PDD) is a program for students who intend to focus their studies on product-oriented design applications. The major addresses the creation of industrial goods and services and concentrates on three principle aspects of design: process, people, and product. The BSID/PDD incorporates the study of user-centered needs, relative to the responsible and resourceful implementation of technology innovation, materials, marketing principles, and aesthetic values.

The Master of Arts in Design program is designed for students who want to pursue professional work in design firms, teaching, project management, strategic planning for design firms, or management roles in technology. We emphasize problem-solving competencies, both conceptual and practical. Students in the program study visual communication design and product design with an interdisciplinary perspective. Students with a wide range of backgrounds work with a graduate advisor to design an M.A. program that meets their career goals. Based upon focused research into a chosen design problem, students develop a specialized area of study in graphic design/visual communication design, product design/manufacturing, industrial technology, project management, or digital media. Many students prepare for doctoral work at other institutions.

The Minor in Industrial Arts is designed to provide students with majors other than Design a broad exposure to applications and benefits of design. Students in the minor will obtain a general knowledge of and a foundation in professional design.

Faculty
Our highly qualified faculty come from a variety of design and technology backgrounds, and play a central role in student advising and the formation of relevant design curricula. Faculty members participate in conferences, consult, attend workshops, and publish and exhibit internationally and are attuned to current trends in design and design education.

Facilities
The school is housed in the Fine Arts Building near the western edge of campus. A wide range of technologies, such as digital media, digital printing, letterpress printing, bookbinding, vinyl cutting, computer-integrated manufacturing, rapid prototyping including 3D printing, digital electronics, metals and wood shops, wireless networking, and large format classroom displays are incorporated into the instructional/learning environment.

Career Outlook

Business and Industry
- Middle Management
- Project Management
- Product Development
- Purchasing
- Field Service
- Technical Services
- Job Development Training
- Marketing/Communications
- Production Coordinator
- Quality Control
- Research Technician

Design
- Product Design
- Visual Communication Design (graphic design and interactive digital media)
- Interdisciplinary

Education
- Teaching
- Curriculum
- Creative Technical Support

Advising
During the first semester in the major all students are required to enroll in the three core prerequisites;

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 323</td>
<td>Visual Design Literacy</td>
<td>3</td>
</tr>
<tr>
<td>DES 356</td>
<td>A History of Design and Technology</td>
<td>3</td>
</tr>
<tr>
<td>DES 370</td>
<td>Introduction to Design and Industry</td>
<td>1</td>
</tr>
</tbody>
</table>

During the DES 370 course, students will meet with an advisor and complete a “Major/Minor contract”.

Students must periodically check with their advisor to update their major advising contract and program goals, students must also meet with their advisor prior to the semester of graduation.
International Track
School of Design majors may enhance their course of study by participating in the official School of Design Study Abroad programs in several locations. Eligible International Track students follow a particular course of study, upon consultation with advising DESIGN faculty, that integrates overseas courses with the approved course requirements in Design. All official SF State Study Abroad students earn SF State resident credit and may use SF State financial aid while participating in the program. For more information, please visit http://oip.sfsu.edu/studyabroad.

Impact
The School of Design undergraduate majors are impacted. This means that there are more students interested in the program than can be accommodated. Therefore, entrance into the majors is a selective and competitive process. Applications must be received during the application filing period and no later than the November 30 deadline. Admissions decisions will be made in March or April of the following calendar year. Transfer applicants not admitted to the program, but who meet GE and University admissions requirements, will be admitted to their alternate majors. Continuing SF State students not admitted to the program will remain in their current majors.

Application Filing Periods
Applications for admission to the majors are accepted by the University during the application filing periods for the fall semester (October 1 to November 30 for admission for the following fall). Applications are not accepted for spring semesters. Applications received outside of the fall semester open filing period will not be considered.

Transfer applicants from other colleges must submit an application via CSU Mentor at http://www.csumentor.edu.

Continuing SF State students must submit a Supplemental Program Application and Change of Major form directly to the School of Design.

Professors
Chen, Gomes, Linder

Associate Professor
Chu, Singer, Trogu

Assistant Professors
Linn

Majors
• Bachelor of Science in Visual Communication Design (p. 763)
• Bachelor of Science in Industrial Design: Concentration in Product Design and Development (p. 758)

Minors
• Minor in Industrial Arts (p. 767)

Masters
• Master of Arts in Design (p. 767)

Bachelor of Science in Industrial Design: Concentration in Product Design and Development

The Bachelor of Science in Industrial Design with Concentration in Product Design and Development (BSID/PDD) is a program for students who intend to focus their studies on product-oriented design applications. The major addresses the creation of industrial goods and services and concentrates on three principle aspects of design: process, people, and product. The BSID/PDD incorporates the study of user-centered needs, relative to the responsible and resourceful implementation of technology innovation, materials, marketing principles, and aesthetic values.

Industrial Design (B.S.): Concentration in Product Design and Development — 59 Units

Core Prerequisites and Foundation (19 units)
Nineteen units of core prerequisite and foundation courses are required of all DES majors.

Core Prerequisites (7 units)
All three must be taken during the first semester.

<table>
<thead>
<tr>
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</tr>
</thead>
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<tr>
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<td>DES 370</td>
<td>Introduction to Design and Industry</td>
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Core Foundation (12 units)

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<tr>
<td>DES 300</td>
<td>Design Process</td>
<td>3</td>
</tr>
<tr>
<td>DES 320</td>
<td>Drafting and Sketching for Design</td>
<td>3</td>
</tr>
<tr>
<td>DES 322</td>
<td>Computer Graphic Imaging</td>
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<tr>
<td>DES 324GW</td>
<td>Research and Writing for Design - GWAR</td>
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Basic Requirements (9 units)

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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECON 101 or ECON 305</td>
<td>Introduction to Microeconomic Analysis / Economic Analysis for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Conceptual Physics</td>
<td>3</td>
</tr>
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</table>

Concentration Requirements (19 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 305</td>
<td>Lab Safety Basics</td>
<td>1</td>
</tr>
<tr>
<td>DES 310</td>
<td>Product Design 1</td>
<td>3</td>
</tr>
<tr>
<td>DES 321</td>
<td>Technical Drawing 1: Introduction to CAD</td>
<td>3</td>
</tr>
<tr>
<td>DES 410</td>
<td>Product Design 2</td>
<td>3</td>
</tr>
<tr>
<td>DES 420</td>
<td>Rapid Visualization</td>
<td>3</td>
</tr>
<tr>
<td>DES 421</td>
<td>Technical Drawing 2: 3-D Solid Modeling</td>
<td>3</td>
</tr>
<tr>
<td>DES 460</td>
<td>Rapid Prototyping and Manufacturing Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Electives (9 units)

Note: Students may choose DES 575 or DES 576, but may not choose DES 575 and DES 576.

Select three of the following:
### ACCT 100 or ACCT 300
Introduction to Financial Accounting or Accounting and Finance Reporting 3

### DES 210
Industrial Science 3

### DES 332
Electricity and Electronics 3

### DES 340
Design and Materials 3

### DES 342
Metals Manufacturing 3

### DES 360
Model Development Laboratory 3

### DES 475
Topics in Design and Industry 3

### DES 524
Information Design 2: Exhibit Design 3

### DES 575
Workshop 3

### Culminating Requirement (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>DES 505: Senior Design Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** Courses taken to fulfill core requirements may be substituted with other courses by advisement.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
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<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
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</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
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<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** LD = Lower Division; UD = Upper Division.

### First Time Student Roadmap (4 Year)

This 2017–2018 roadmap (p. 761) opens in a new tab.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer, doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Science in Industrial Design: Concentration in Product Design and Development Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 61

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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<tr>
<td>ECON 101 or ECON 305</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 305</td>
<td>or Economic Analysis for Non-Majors</td>
<td></td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Conceptual Physics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
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<tr>
<td>SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td>13</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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</tr>
<tr>
<td>DES 323</td>
<td>Visual Design Literacy</td>
<td>3</td>
</tr>
<tr>
<td>DES 356</td>
<td>A History of Design and Technology</td>
<td>3</td>
</tr>
<tr>
<td>DES 370</td>
<td>Introduction to Design and Industry</td>
<td>1</td>
</tr>
<tr>
<td>Concentration Electives (9 Units Total) – Take Two</td>
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</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DES 300</td>
<td>Design Process</td>
<td>3</td>
</tr>
<tr>
<td>DES 305</td>
<td>Lab Safety Basics</td>
<td>1</td>
</tr>
<tr>
<td>DES 320</td>
<td>Drafting and Sketching for Design</td>
<td>3</td>
</tr>
<tr>
<td>DES 322</td>
<td>Computer Graphic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DES 324GW</td>
<td>Research and Writing for Design - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
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### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>DES 310</td>
<td>Product Design 1</td>
<td>3</td>
</tr>
<tr>
<td>DES 321</td>
<td>Technical Drawing 1: Introduction to CAD</td>
<td>3</td>
</tr>
<tr>
<td>DES 420</td>
<td>Rapid Visualization</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 431</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Concentration Electives (9 Units Total)</td>
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<td>3</td>
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</tbody>
</table>

| Units | 15 |

### Eighth Semester

<table>
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<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DES 410</td>
<td>Product Design 2</td>
<td>3</td>
</tr>
<tr>
<td>DES 421</td>
<td>Technical Drawing 2: 3-D Solid Modeling</td>
<td>3</td>
</tr>
<tr>
<td>DES 460</td>
<td>Rapid Prototyping and Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>DES 505</td>
<td>Senior Design Project</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

| Units | 15 |

| Total Units | 120-121 |

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. Electives

- ACCT 100 Introduction to Financial Accounting (3 units)
- or ACCT 300 Accounting and Finance Reporting (3 units)
- DES 210 Industrial Science (3 units)
- DES 332 Electricity and Electronics (3 units)
- DES 340 Design and Materials (3 units)
- DES 342 Metals Manufacturing (3 units)
- DES 360 Model Development Laboratory (3 units)
- DES 475 Topics in Design and Industry (3 units)
- DES 524 Information Design 2: Exhibit Design (3 units)
- DES 575 Workshop (3 units)
- or DES 576 Practical Experience: Internship (3 units)
Bachelor of Science in Visual Communication Design

The Bachelor of Science in Visual Communication Design (BSVCD) is a program for students who intend to focus their studies on visual communication design applications relative to graphic design and digital media. The major addresses a changing technological landscape and the resulting new opportunities for education and the profession in the realm of visual communication design. The design major prepares students for design study, research, and practice, as well as flexible collaboration with other disciplines involving technology, user experience, and creative problem-solving.

Visual Communication Design (B.S.) — 58 units

Core Prerequisites and Foundation (19 units)

Nineteen units of core prerequisite and foundation courses are required of all DES majors.

Core Prerequisites (7 units)

All three must be taken during the first semester.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DES 323</td>
<td>Visual Design Literacy</td>
<td>3</td>
</tr>
<tr>
<td>DES 356</td>
<td>A History of Design and Technology</td>
<td>3</td>
</tr>
<tr>
<td>DES 370</td>
<td>Introduction to Design and Industry</td>
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</table>

Core Foundation (12 units)

<table>
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<th>Title</th>
<th>Units</th>
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</thead>
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<td>DES 300</td>
<td>Design Process</td>
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<tr>
<td>DES 320</td>
<td>Drafting and Sketching for Design</td>
<td>3</td>
</tr>
<tr>
<td>DES 322</td>
<td>Computer Graphic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DES 324GW</td>
<td>Research and Writing for Design - GWAR</td>
<td>3</td>
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Major Prerequisites (6 units)

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<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DES 325</td>
<td>Graphic Design 1: Introduction</td>
<td>3</td>
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<tr>
<td>DES 327</td>
<td>Digital Media 1</td>
<td>3</td>
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Major Requirements (9 units)

Select three of the following:

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DES 425</td>
<td>Graphic Design 2: Typography</td>
<td>3</td>
</tr>
<tr>
<td>DES 427</td>
<td>Digital Media 2</td>
<td>3</td>
</tr>
<tr>
<td>DES 525</td>
<td>Graphic Design 3: Advanced</td>
<td>3</td>
</tr>
<tr>
<td>DES 527</td>
<td>Digital Media 3</td>
<td>3</td>
</tr>
<tr>
<td>DES 627</td>
<td>Advanced Projects in Visual Communication Design</td>
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</table>

Culminating Requirement (6 units)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DES 505</td>
<td>Senior Design Project (to be taken in the last semester)</td>
<td>3</td>
</tr>
<tr>
<td>DES 570</td>
<td>Professional Practices for Designers</td>
<td>3</td>
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</table>

Major Electives (18 units)

Six of the 18 elective units must be in DES (p. 1497) and selected in consultation with a DES advisor.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
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<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
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<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<tr>
<td>Arts or Humanities</td>
<td>LD</td>
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<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Government</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (S-J)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

763
First Time Student Roadmap (4 year)

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

   • Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Visual Communication Design Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 56

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Electives (18 units total): Six units must be in DES and selected in consultation with a DES advisor – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DES 323</td>
<td>Visual Design Literacy</td>
<td>3</td>
</tr>
<tr>
<td>DES 356</td>
<td>A History of Design and Technology</td>
<td>3</td>
</tr>
<tr>
<td>DES 370</td>
<td>Introduction to Design and Industry</td>
<td>1</td>
</tr>
<tr>
<td>Major Electives (18 units total): Six units must be in DES and selected in consultation with a DES advisor – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area U–D: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DES 300</td>
<td>Design Process</td>
<td>3</td>
</tr>
<tr>
<td>DES 320</td>
<td>Drafting and Sketching for Design</td>
<td>3</td>
</tr>
<tr>
<td>DES 322</td>
<td>Computer Graphic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DES 324GW</td>
<td>Research and Writing for Design - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area U–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DES 325</td>
<td>Graphic Design 1: Introduction</td>
<td>3</td>
</tr>
<tr>
<td>DES 327</td>
<td>Digital Media 1</td>
<td>3</td>
</tr>
</tbody>
</table>
### Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 570</td>
<td>Professional Practices for Designers</td>
<td>3</td>
</tr>
<tr>
<td>DES 505</td>
<td>Senior Design Project</td>
<td>3</td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 527</td>
<td>Digital Media 3 (3 units)</td>
<td>3</td>
</tr>
<tr>
<td>DES 425</td>
<td>Graphic Design 2: Typography (3 units)</td>
<td>3</td>
</tr>
<tr>
<td>DES 427</td>
<td>Digital Media 2 (3 units)</td>
<td>3</td>
</tr>
<tr>
<td>DES 525</td>
<td>Graphic Design 3: Advanced (3 units)</td>
<td>3</td>
</tr>
<tr>
<td>DES 527</td>
<td>Digital Media 3 (3 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Major Electives (18 units total): Six units must be in DES and selected in consultation with a DES advisor</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 120-122

---

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

3. **Major Requirements (Three Total)**
   - DES 425 Graphic Design 2: Typography (3 units)
   - DES 427 Digital Media 2 (3 units)
   - DES 525 Graphic Design 3: Advanced (3 units)
   - DES 527 Digital Media 3 (3 units)
   - DES 627 Advanced Projects in Visual Communication Design (3 units)
Minor in Industrial Arts

A minor in Industrial Arts consists of 22 units that are largely chosen with an advisor to tailor the minor to the student’s goals. One-half of the course work for the minor must be taken at the upper division level.

Industrial Arts, Minor − 22 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 322</td>
<td>Computer Graphic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DES 327</td>
<td>Digital Media 1</td>
<td>3</td>
</tr>
<tr>
<td>DES 370</td>
<td>Introduction to Design and Industry</td>
<td>1</td>
</tr>
<tr>
<td>DES 210</td>
<td>Industrial Science</td>
<td>3</td>
</tr>
<tr>
<td>or DES 300</td>
<td>Design Process</td>
<td></td>
</tr>
</tbody>
</table>

Select courses with approval of DES advisor 12

Master of Arts in Design

Graduate Advisors: Chu, Chen, Gomes, Linder, Linn, Singer, Trogu

The Master of Arts in Design curriculum provides students with the opportunity to:

• Develop a specialized advanced study area in design and design technology, design, and industrial studies.
• Prepare for doctoral study in other institutions which emphasize research and professional development in relation to the various aspects of technology.

This program is designed for students who want to:

• Pursue professional development related to teaching, training, or administration in program areas related to industrial and technology education.
• Study visual communication design/graphic communications and/or product design development from both an interdisciplinary as well as cross-disciplinary perspective.
• Develop further expertise in a specific area of design studies through an individual, interdisciplinary-based program of study that focuses on specific goals.

Students pursuing this program come from a variety of occupational areas including: education, service occupations, manufacturing, product design, visual communication design, management, electronics, construction, power and energy, and small business entrepreneurship. Employment opportunities include preparation for career advancement/enhancement through advanced study in design and related disciplines, acquisition of additional technical skills, and continued research and development activity.

Admission to Program

The application process to the graduate program is a dual process. One application for the University and a second application for the School of Design. The School of Design graduate application requires a statement of purpose, a résumé, three letters of recommendation, and a portfolio, evidence of creative, technical, or written work. The program admits in the fall only. Deadline for admission materials is May 1[1]. Additionally, the University requires a bachelor's degree or a recognized equivalent from a regionally accredited institution and a satisfactory scholastic average; a minimum grade-point average (GPA) of 3.0.

Students entering this program normally present an undergraduate major in design, engineering, fine arts, industrial arts, or industrial technology subject major. Priority will be given to applicants who have at least one year between completion of undergraduate degree and professional work experience. The school does accept students with other undergraduate majors in cases where students desire to make career changes or do advanced study in design or technology related subject matter for enhancing career development and professional growth. For non-majors, a minimum of 12 additional conditional status units are required by advisement encompassing such areas as design, product design, visual communications design, graphic design, and basic tools, materials, processes knowledge and skills. Conditional status students are required to have a portfolio review with the school graduate committee upon completion of their 12 unit upper division undergraduate DES courses. The review will commence prior to transitioning to classified status. Students may be required to enroll in additional upper division undergraduate DES classes prior to transitioning to classified status. Classified status is required for enrollment in the following classes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 800</td>
<td>Seminar in Design Topics</td>
<td>3</td>
</tr>
<tr>
<td>DES 805</td>
<td>Seminar in Design Methodology</td>
<td>3</td>
</tr>
<tr>
<td>DES 852</td>
<td>Directed Experience in Design and Industry</td>
<td>3</td>
</tr>
<tr>
<td>DES 894</td>
<td>Creative Work Project</td>
<td>3</td>
</tr>
<tr>
<td>DES 898</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Advancement to Candidacy

A student is advanced to candidacy for a degree when the Advancement to Candidacy (ATC) is accepted and approved by the Dean of Graduate Studies. All conditions placed on conditionally classified status must be satisfied before a student develops an ATC. For conditionally classified students (42 units), there is a conditional status review before a student is eligible to enroll in 800 level coursework. The Advancement to Candidacy and culminating experience Creative Work Project (CWP) should be filed in the semester immediately preceding registration for the final six units of graduate work. It is the student’s responsibility to monitor his/her progress and to work with appropriate school advisors filling out university forms as necessary and meeting published deadlines.

Students enrolled in the culminating experience CWP, must complete their culminating experience within two (consecutive) semesters. Students who fail to complete the CWP within two semesters are required to pay a re-enrollment fee for each additional semester until the CWP has been completed. NOTE: Creative Work Oral Defense Presentation (a requirement for degree) is conducted spring semester only.

Students are required to complete their Creative Work Project within five years.

Students who do not complete the culminating experience requirement (DES 894 or DES 898) in the semester they are enrolled or immediate subsequent semester, are required to maintain continuous enrollment through the College of Extended Learning (CEL) until the degree is earned. Students in the CEL course will have access to library and discipline-specific laboratories. The five-year “time to degree” is in effect. Students in the culminating experience continuous enrollment program should maintain frequent contact each semester with their advisor and meet all timelines outlined in the culminating experience proposal document (see policy on Graduate Studies website grad.sfsu.edu [http://grad.sfsu.edu]).

Students who have left the University for more than one semester while completing coursework are not guaranteed readmission to their program.
Written English Proficiency Requirement
As stated in the graduate studies section of the University Bulletin, each graduate student must demonstrate the ability to write American English correctly and effectively.

Level One
It is recommended but not required that applicants submit a GRE Analytical Writing Exam with a score of 4 or higher. Applicants who need additional work writing American English as determined by faculty/advisors will be referred to appropriate courses and/or resources on campus.

Level Two
Students will meet this requirement by the successful completion of the written phase of the culminating experience work that is part of either the Creative Work Project (DES 894) or Master’s Thesis (DES 898).

Note: It is school policy that a student must have a comprehensive written proposal approved by the school within one semester prior to enrolling in either DES 894 or DES 898.

Upper division courses may be selected with prior approval of the graduate advisor.

Design (M.A.) — Minimum 30 Units
Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DES 700</td>
<td>Seminar in Design Research</td>
<td>3</td>
</tr>
<tr>
<td>DES 755</td>
<td>Seminar in Design Management</td>
<td>3</td>
</tr>
<tr>
<td>DES 800</td>
<td>Seminar in Design Topics</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 units from the following graduate courses with approval of graduate advisor.</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>DES 805</td>
<td>Seminar in Design Methodology</td>
<td></td>
</tr>
<tr>
<td>DES 852</td>
<td>Directed Experience in Design and Industry</td>
<td></td>
</tr>
<tr>
<td>DES 894</td>
<td>Creative Work Project</td>
<td>3</td>
</tr>
<tr>
<td>or DES 898</td>
<td>Master’s Thesis</td>
<td></td>
</tr>
<tr>
<td>Select supporting upper division/graduate courses as approved by the graduate advisor</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>
ENGLISH

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of English Language and Literature
Humanities Building, Room 484
Phone: (415) 338–2264
Chair: Sugie Goen–Salter

Program Coordinators
Interim Director of the Writing Program: Jennifer Trainor
Composition for Multilingual Students (CMS, formerly ESL): Lisa Heyer
English Education: Paul Morris
Linguistics: Troi Carleton
Literature: Bill Christmas
Director of the Technical and Professional Writing Program: Neil Lindeman

Graduate Coordinators
Composition: Mark Roberge
Linguistics: Troi Carleton
Literature: Julie Paulson
TESOL: David Olsher

English

Program Scope
The Bachelor of Arts in English typically includes introductory course work in the study of language, the principles of critical investigation and critical writing, and the various methods of literary and/or language study. The requirements for each concentration are intended to make each student familiar with one of the principal areas of English studies, and to show how other areas of English studies can illuminate his or her area of concentration.

The Master of Arts in English with Concentration in Literature develops professional skills, ensures breadth of knowledge, and provides opportunities for specialization. Broader relationships are studied in the survey, period, and genre courses; narrower, deeper investigations are undertaken in other seminars. The thesis explores critical possibilities well beyond the range of the seminar paper. It measures the candidate's ability to isolate and thoroughly examine a particular literary problem, theme, or idea.

The Master of Arts in English with Concentration in Linguistics provides students with a solid grounding in the tools of language analysis. The course offerings in contemporary linguistic theory cover a broad spectrum of the levels of linguistic structure: phonetics, phonology, morphology, syntax, semantics, discourse analysis, psycholinguistics, and sociolinguistics. Since the program allows considerable choice in course work beyond a basic set of core requirements, the student in consultation with an advisor can plan a program to suit individual interests and career requirements.

The Master of Arts in English with Concentration in Teaching English to Speakers of Other Languages (TESOL) is offered as a result of a local, national, and international demand for persons prepared to perform various services in English as a foreign or second language. This concentration includes work in literature and foreign languages, with electives in education and the social sciences, as well as specialized work at an advanced level in linguistics and language teaching. The concentration provides training for teachers and a suitable background for supervisors and others responsible for the preparation of materials and courses of study in English as a foreign or second language. Completion of the M.A. in English TESOL program may not fulfill the requirements for teacher credentialing in the State of California; some California credentials may require additional course work and/or examinations.

The Masters in English with a Concentration in Composition provides students with a broad background in the theory, research, policy, and practice of teaching composition and postsecondary reading to diverse student populations.

The Certificate in the Teaching of Composition prepares students to teach composition at the secondary and post-secondary levels. It also provides experienced teachers with an opportunity to deepen their understanding of theory and practice in the field.

The Certificate in the Teaching of Post-Secondary Reading enables prospective and already practicing post-secondary teachers to attain proficiency in the teaching of reading at community college, college, and adult levels. Requirements for teaching reading in the community colleges (Assembly Bill 1725) specify that new instructors must possess a master's degree in education with a specialization in reading, or a master's in English or TESOL with additional certification in the teaching of reading.

The Certificate in Immigrant Literacies represents an innovative graduate-level program for pre-service and in-service professionals who wish to combine cross-disciplinary study of language, literacies, and the immigrant experience with community service learning. The Certificate program primarily targets matriculated graduate students preparing for careers in adult ESOL (English to Speakers of Other Languages), health, community development, and other careers that serve the needs of immigrant groups, as well as professionals who are already working in these careers. Certificate students learn about the influence of language and literacies in a specific social context (e.g., health) and hone community partnership skills for meaningful advocacy and collaboration within the local community. The program's broader goals aim to foster the commitment, knowledge, and skills that are fundamental to proactive civic engagement.

Career Outlook
The English major can lead to a rewarding career in teaching as well as in professional fields such as law, publishing, information science, and business.

Students completing the Master of Arts with Concentration in Composition typically either teach at community colleges or go on to doctoral work with a view to teaching at a college or university. At the university level, specialists in composition and rhetoric are in increasing demand as researchers and directors of undergraduate writing programs. Two-year colleges are increasingly recognizing the need for professional training in the teaching of composition and are hiring accordingly.

While the Master of Arts with Concentration in Literature is specifically designed to help prepare a student for a career in teaching literature in community colleges or high schools in the United States or other countries, or for going on to a doctoral program, it has a far broader application. Any career requiring communication, research or analytic skills, literacy, a careful scholarly approach and a broad understanding of human values may use this program as a base. Those include publishing,
The Master of Arts with Concentration in Linguistics prepares students for a variety of teaching and research positions in which the emphasis is on the structure of language. Graduates of the program may teach English language or writing, work in the fields of speech production or speech recognition, or go on to further study in linguistics or related disciplines.

The Master of Arts with Concentration in Teaching English to Speakers of Other Languages (TESOL) prepares students specifically to teach English to non-native speakers of the language. Most graduates of the program become TESOL classroom teachers in adult education classes, public schools, intensive language programs, and colleges either in the United States or foreign countries. Others choose jobs in related areas such as program administration, curriculum design, materials writing, and teacher training.

The Certificate in the Teaching of Composition prepares students for teaching composition at the advanced secondary, community college, and college levels. Many students in M.A. programs other than Composition take the certificate as a means of preparing themselves for teaching composition in two-year colleges. In addition, a number of two-year college and high school English teachers take the courses to develop their expertise in composition.

The Certificate in Teaching Post-Secondary Reading enables prospective and already practicing post-secondary teachers to develop their ability to meet specific individual professional needs in the area of basic literacy and reading instruction. This certificate prepares students for teaching positions in the community colleges and community agencies where specialized background and techniques are necessary.

The Certificate in Immigrant Literacies program prepares students to work in community-based adult CMS/literacy settings as adult CMS teachers and/or community partners with adult CMS programs. Students who graduate with a Certificate also find jobs in related areas, including CMS curriculum development, materials writing, community-based participatory research, community organizing, grant-writing, and partnership building.

Technical and Professional Writing Program

Program Scope

Technical and professional writers are in demand to link ideas, technologies, products, and services with people who need to understand those developments or to use them. The Technical and Professional Writing Program can prepare students for that critical communications role through major, minor, and certificate programs.

Technical and professional writers work in almost every field of industry and public life, including high-technology industries, business, government, and research and non-profit organizations. These career writers not only write and edit many types of documents in different media, but also sometimes design publications, manage and evaluate documentation and communication projects, and oversee development, production, and distribution processes.

To be best prepared for success in such work, students will need to start with strong writing skills then learn how to adapt them for the workplace and for changing technology and employment needs. Students also will need an intellectual framework for continuing professional growth and responsibility throughout their careers, including a solid grounding in humanistic studies, with an emphasis on analytical and ethical practices relevant for the workplace.

TPW students can combine TPW courses—which expose them to current workplace forms, methods, standards, and issues—with interdisciplinary electives that further develop related communications skills and attitudes. Students also can target a potential employment interest: Majors choose a specialized concentration (the subject matter focus); minors and certificate students can use TPW studies to complement their education and experience in other fields.

After completing the TPW program, students can begin their writing careers with important accomplishments and advantages: an academic degree or certificate in the field, improved and focused skills, an understanding of professional expectations and best practices for writers, and a portfolio of relevant writing samples.

Career Outlook

Depending on students’ choices of subject matter focus and/or skills electives, students would be prepared for entry-level jobs as writers, editors, desktop or multimedia publishers, information developers and designers, and/or communications managers producing and overseeing technical documentation, content management systems, training or support materials, reports or proposals, and promotions or publicity.

Graduate Programs in English

Advising is central to the program. Students must see their advisors to shape their programs initially, to gain approval for course choices, and to prepare for the oral examination. For more detailed information on obtaining advising, please contact the English department graduate secretary.

All M.A. candidates who wish to receive the Single Subject Teaching Credential concurrently with the M.A. should confer with an appropriate advisor in the College of Education.

Professors

Carleton, Christmas, Goen-Salter, Green, Hanley, Klironomos, Krasny, Lyles, Peel, Rehling, Roberge, Schoerke, Soliday, Stec, Trainor, Voloshin

Associate Professors

Abeywickrama, Cannon, Hackenberg, Jones, Kwok, Lindeman, Lockhart, Mylander, Olisher, Paulson, Santos, Shahani

Assistant Professors

DeGuzman, Gilligan, Kohls, Lederer, Morris, Smirnova, Star, Wardley

 Majors

- Bachelor of Arts in English: Concentration in Literature (p. 792)
- Bachelor of Arts in English: Concentration in Linguistics (p. 785)
- Bachelor of Arts in English: Concentration in English Education (p. 771)
- Bachelor of Arts in English: Concentration in Individual Major (p. 778)
- Bachelor of Arts in Technical and Professional Writing (p. 799)

Minors

- Minor in English and American Literature (p. 806)
- Minor in Linguistics (p. 806)
Certificate

- Certificate in Technical and Professional Writing (p. 805)

Masters

- Master of Arts in English: Concentration in Composition (p. 807)
- Master of Arts in English: Concentration in Literature (p. 809)
- Master of Arts in English: Concentration in Linguistics (p. 807)
- Master of Arts in English: Concentration in Teaching English to Speakers of Other Languages (p. 810)

Certificates

- Certificate of Immigrant Literacies (p. 804)
- Certificate in the Teaching of Composition (p. 805)
- Certificate in Teaching Post-Secondary Reading (p. 804)

Bachelor of Arts in English: Concentration in English Education

General Information

Students considering teaching in the secondary schools should see a departmental credential advisor before planning their program. Specific courses and an assessment of competencies are required for admission to the Secondary Education Credential program. Students should also contact the Credential and Graduate Services Center, Burk Hall 244, (415) 405–3594, regarding teaching credential information.

English majors with concentrations in Literature, Linguistics, or Individual Major are required to complete a 45 unit program consisting of six units of lower-division prerequisites, 15 units of core requirements, 21 units in an area of concentration, and three units of culminating experience. English majors with a concentration in English Education must complete six units of lower-division prerequisites, 12 units of core requirements, between 23 and 26 units in the concentration (including three units of culminating experience), plus 12 to 22 units in an area of emphasis.

A maximum of nine units of work in lower-division literature courses may be accepted for credit in the major upon consent of an advisor.

Advanced Placement (A.P.) credit in composition cannot be used to fulfill the lower division literature requirement in the major or minor.

Completion of ENG 480GW with a grade of C or higher fulfills the Graduation Writing Assessment Requirement (GWAR) for all English majors.

Culminating Experience must be completed during either the final semester, or one of the semesters of the student’s final (senior) year, depending on the English major concentration. For more information, please refer to the relevant major concentration section in this Bulletin.

English (B.A.): Concentration in English Education — 53 units

Lower Division (6 units)

Two lower division courses in literature (to be taken as prerequisite or corequisite with ENG 480GW. One of these courses may also satisfy the "Mythology and Oral Traditions" requirement in the English Education Concentration.

Core Requirements (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration: English Education (23–26 units)

General Linguistics (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 420</td>
<td>Introduction to the Study of Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Applied Linguistics (3 units)

Select one of the following or see an advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td>3</td>
</tr>
<tr>
<td>ENG 426</td>
<td>Second Language Acquisition (co-requisite: introductory course in a foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 706</td>
<td>Seminar in Sociolinguistics of Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Literature: Adolescent (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 655</td>
<td>Literature and the Adolescent Reader</td>
<td>3</td>
</tr>
</tbody>
</table>

Literacy (3 units)

Includes 25 community service learning hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 417</td>
<td>Academic Literacy and the Urban Adolescent</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Composition (3 units)

Includes 20 community service learning hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 419</td>
<td>Advanced Composition for Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

Mythology and Oral Traditions (0–3 units)

Select one of the following if not taken as prerequisite above:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 162</td>
<td>American Indian Oral Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 230</td>
<td>Ancient Epic Tales</td>
<td>3</td>
</tr>
<tr>
<td>CWL 250</td>
<td>Fables and Tales</td>
<td>3</td>
</tr>
<tr>
<td>CWL 260</td>
<td>Myths of the World</td>
<td>3</td>
</tr>
<tr>
<td>CWL 421</td>
<td>Celtic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 636</td>
<td>Greek and Roman Myth and Modern Literature</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 435</td>
<td>Oral History Methods: Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Speech Performance (4 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 220</td>
<td>Introduction to the Performance of Literature</td>
<td>3-4</td>
</tr>
<tr>
<td>or COMM 553</td>
<td>Oral Interpretation of the First Person Voice</td>
<td></td>
</tr>
</tbody>
</table>

Global Literature (3 units)

A course in anglophone (composed in English) literature not from the U.S. or Britain. Courses in this section must be selected with approval of advisor.

Culminating Experience: English Education E-portfolio (1 units)

This course must be completed during the final semester. (English Education e-portfolio – see below)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 688</td>
<td>Assessment in English Language Arts</td>
<td>1</td>
</tr>
</tbody>
</table>
Emphasis
In addition, candidates must complete one of the following four emphasis areas.

Emphasis: Literature (12 units)
ENG 460 Literature in English I: Beginnings through the 17th Century 3
ENG 690 Senior Seminar (variable topics; see current Class Schedule) 3
Select one course in theory or criticism 3
Select one additional upper-division elective 3
Total for Major: 53–56

Emphasis: Linguistics (12–15 units)
ENG 421 SYNTAX 3
ENG 422 History of the English Language 3
ENG 424 Phonology and Morphology 3
ENG 425 Language in Context (if not used to satisfy Applied Linguistics above) 3
Select an additional linguistics elective with approval of advisor 3
Total for Major: 53–59

Emphasis: Creative Writing (15 units)
C W 301 Fundamentals of Creative Writing 3
C W 302 Fundamentals of Creative Reading 3
Craft of Writing
Select one of the following: 3
C W 511GW Craft of Poetry - GWAR
C W 512GW Craft of Fiction - GWAR
C W 513GW Craft of Playwriting - GWAR
Upper-Division Creative Writing Electives
Select two upper-division Creative Writing electives (workshop or creative process classes in Creative Writing) 6
Total for Major: 56–59

Emphasis: Drama 5 (19–22 units)
Lower-Division Acting
TH A 130 Acting Workshop I 3
TH A 230 Acting Workshop II 3
Stage Production, General and Technical Theatre
TH A 205 Introduction to Technical Theatre and Design 2
Select one of the following: 2
TH A 310 Scenery and Properties Laboratory and Crew
TH A 312 Costuming and Makeup Laboratory and Crew
TH A 313 Lighting and Sound Laboratory and Crew
Theatre Backgrounds
Select one of the following: 3
TH A 401 Theatre Backgrounds: 500 B.C. - 1642
TH A 402 Theatre Backgrounds: 1642 - 1900
TH A 403 Theatre Backgrounds: 1900 - Present
Acting and Directing
Upper division courses — one may be used for Speech Performance 6-9 above, which would reduce the English Education requirements by 1 unit
Total for Major: 59–66

Important Notes
1. Students must have a GPA of 2.0 or higher in the major, and no grade in the major lower than C– (except for ENG 480GW, which requires a grade of C or higher).
2. Only courses in which students earn a B– or better will count towards subject matter competency for admission into a California credential program. Students who earn lower grades in any of the courses required for their major will need to take the California Subject Examination for Teachers (CSET) to establish subject matter competency.
3. Admission to the credential program at SF State requires a GPA of 2.75 (B–) or better.
4. Check with an English Education advisor for specific courses that meet the requirements in the English Education concentration and with an advisor in your emphasis area to ensure that your electives are approved.
5. Candidates pursuing an emphasis in drama should see a minor advisor in Theatre Arts to learn how to supplement the English Education major with a minor. The drama emphasis area allows substitutions in the English Education Concentration. See an advisor if you are considering this area.

Candidates with a particular interest in communication studies or comparative and world literature can pursue special strands within those majors for subject matter competency in English.

Electronic Portfolio
Candidates in English Education must register for ENG 688 during their final semester, when they will compile an electronic portfolio to demonstrate that they have met all of the core outcomes of the Single Subject Program. They should include artifacts—examples of their work, and faculty and peer comments on their work—and reflections that explicitly tie elements of the artifacts to the outcome statements.

Complementary Studies Requirement for English Majors
Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.

1. Foreign Language: 12 units in a single foreign language;
2. 2nd Major, Minor, or Certificate: 12 units of course work taken as part of a second major, a minor or a certificate;
3. Study Abroad: 12 units of course work taken in an approved study abroad program (such as CSU Study Abroad);
4. Related Subjects: 12 units of course work in related disciplines with the approval of an English Department advisor.

Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign
Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field.

Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: Literature History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES)           | LD or UD | 3 |
| Global Perspectives (GP)                    | LD or UD | 3 |
| Social Justice (SJ)                          | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

### First Time Student Roadmap (4 Year)

This 2017–2018 roadmap opens in a new tab.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in English: Concentration in English Education Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 53

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower division Course in Literature in English – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>14-15</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower division Course in Literature in English – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Emphasis (12–22 Units Total) – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One Mythology and Oral Traditions Course if not Taken as a Prerequisite Above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 417</td>
<td>Academic Literacy and the Urban Adolescent</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 655</td>
<td>Literature and the Adolescent Reader</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 419</td>
<td>Advanced Composition for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 420</td>
<td>Introduction to the Study of Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583 or ENG 584</td>
<td>Shakespeare: Representative Plays or Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (12–22 units total)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Format</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 220</td>
<td>Introduction to the Performance of Literature</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>or COMM 553</td>
<td>or Oral Interpretation of the First Person Voice</td>
<td>3-4</td>
<td></td>
</tr>
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</table>

**Select One:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Format</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 426</td>
<td>Second Language Acquisition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 706</td>
<td>Seminar in Sociolinguistics of Composition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Major Emphasis (12–22 units total) – Take Two**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Format</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 688</td>
<td>Assessment in English Language Arts</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Global Literature: A Course in Anglophone (composed in English) literature not from the U.S. or Britain. Courses in this section must be chosen with approval of advisor.

**Major Emphasis (12–22 units total) or SF State Studies or University Electives – Take Three**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Format</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 688</td>
<td>Assessment in English Language Arts</td>
<td>1</td>
<td></td>
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</table>

**Units**

<table>
<thead>
<tr>
<th>Format</th>
<th>Format</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-16</td>
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**Total Units**

<table>
<thead>
<tr>
<th>Format</th>
<th>Format</th>
<th>Format</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-122</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP; ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.

   - Foreign Language: 12 units in a single foreign language;
   - Second Major / Minor / Certificate: 12 units of course work taken as part of a second major, a minor or a certificate;
   - Study Abroad: 12 units of course work taken in an approved study abroad program (such as CSU Study Abroad);

5. Related Subjects: 12 units of course work in related disciplines with the approval of a English Department advisor. Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, 6 units must be from classes in a non-literary related field. Depending on concentration within the major, CS pathway, and with approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.
Emphasis: Literature (12 units)
ENG 460 Literature in English I: Beginnings through the 17th Century
ENG 690 Senior Seminar (variable topics; see current Class Schedule)
Select one course in theory or criticism
Select one additional upper-division elective

Emphasis: Linguistics (12 – 15 units)
ENG 421 SYNTAX
ENG 422 History of the English Language
ENG 424 Phonology and Morphology
ENG 425 Language in Context (if not used to satisfy Applied Linguistics above)
Select an additional linguistics elective with approval of advisor

Emphasis: Creative Writing (15 units)
C W 301 Fundamentals of Creative Writing
C W 302 Fundamentals of Creative Reading
Craft of Writing – Select one of the following:
C W 511GW Craft of Poetry - GWAR
C W 512GW Craft of Fiction - GWAR
C W 513GW Craft of Playwriting - GWAR
Upper-Division Creative Writing Electives
Select two upper-division Creative Writing electives (workshop or creative process classes in Creative Writing)

Emphasis: Drama 5 (19 – 22 units)
Lower-Division Acting
TH A 130 Acting Workshop I
TH A 230 Acting Workshop II
Stage Production, General and Technical Theatre
TH A 205 Introduction to Technical Theatre and Design
Select one of the following:
TH A 310 Scenery and Properties Laboratory and Crew
TH A 312 Costuming and Makeup Laboratory and Crew
TH A 313 Lighting and Sound Laboratory and Crew
Theatre Backgrounds
Select one of the following:
TH A 401 Theatre Backgrounds: 500 B.C.-1642
TH A 402 Theatre Backgrounds: 1642-1900
TH A 403 Theatre Backgrounds: 1900-Present
Acting and Directing
Upper division courses — one may be used for Speech Performance above, which would reduce the English Education requirements by 1 unit

Mythology and Oral Traditions
AIS 162 American Indian Oral Literature
CLAS 230 Ancient Epic Tales
CWL 250 Fables and Tales
CWL 260 Myths of the World
CWL 421 Celtic Literature
ENG 636 Greek and Roman Myth and Modern Literature
LTNS 435 Oral History Methods: Theory and Practice
Bachelor of Arts in English: Concentration in Individual Major

General Information

Students considering teaching in the secondary schools should see a departmental credential advisor before planning their program. Specific courses and an assessment of competencies are required for admission to the Secondary Education Credential program. Students should also contact the Credential and Graduate Services Center, Burk Hall 244, (415) 405-3594, regarding teaching credential information.

English majors with concentrations in Literature, Linguistics, or Individual Major are required to complete a 45 unit program consisting of six units of lower-division prerequisites, 15 units of core requirements, 21 units in an area of concentration, and three units of culminating experience. English majors with a concentration in English Education must complete six units of lower-division prerequisites, 12 units of core requirements, between 23 and 26 units in the concentration (including three units of culminating experience), plus 12 to 22 units in an area of emphasis.

A maximum of nine units of work in lower division literature courses may be accepted for credit in the major upon consent of an advisor.

Advanced Placement (A.P.) credit in composition cannot be used to fulfill the lower-division literature requirement in the major or minor.

Completion of ENG 480GW with a grade of C or higher fulfills the Graduation Writing Assessment Requirement (GWAR) for all English majors.

Culminating Experience must be completed during either the final semester or one of the semesters of the student’s final (senior) year, depending on the English major concentration. For more information, please refer to the relevant major concentration section in this Bulletin.

English (B.A.): Concentration in Individual Major — 45 units

Lower-division (6 units)

Lower-division coursework in literature in English (prerequisite for or corequisite with ENG 480GW).

Core Requirements (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td></td>
</tr>
</tbody>
</table>

Concentration: Individual Major (21 units)

The Individual Major program serves those students who have defined an interdisciplinary course of study they wish to follow. This course of study typically requires one or more courses in non-literary subject areas or disciplines; it also may require more units outside of the ENG course prefix than are allowed for Literature concentrators (9 units). A student wishing to enroll in the Individual Major must present a compelling interdisciplinary idea to a faculty member who might serve as the student’s advisor. If accepted, a coherent plan for the student’s Individual Major concentration units is then worked out in close consultation with the faculty advisor.

Culminating Experience (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 690</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

This course must be completed during one of the semesters of the final (senior) year.

A list of undergraduate advisors is available in the department office (HUM 484) or on english.sfsu.edu (http://english.sfsu.edu).

Students must have a GPA of 2.0 or higher in the major, and no grade in the major lower than C– (except for ENG 480GW, which requires a grade of C or higher).

Complementary Studies Requirement for English Majors

Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.

1. Foreign Language: 12 units in a single foreign language;
2. 2nd Major, Minor, or Certificate: 12 units of course work taken as part of a second major, a minor or a certificate;
3. Study Abroad: 12 units of course work taken in an approved study abroad program (such as CSU Study Abroad);
4. Related Subjects: 12 units of course work in related disciplines with the approval of an English Department advisor.

Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field.

Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
</tbody>
</table>
Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.
Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in English: Concentration in Individual Major Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower-division Literature Course in English</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower-division Literature Course in English</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>ENG 420</td>
<td>Introduction to the Study of Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 421</td>
<td>SYNTAX</td>
<td>3</td>
</tr>
<tr>
<td>ENG 424</td>
<td>Phonology and Morphology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583 or ENG 584</td>
<td>Shakespeare: Representative Plays or Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td>Concentration Electives (Four Total with Approval of Advisor) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td>3</td>
</tr>
<tr>
<td>Major Core: Survey Course – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Concentration Electives (Four Total with Approval of Advisor) – Take One</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

781
Complementary Studies or SF State Studies or University Elective ⁴ | 3
---|---
**Eighth Semester** | **Units** | **15**
ENG 422 | History of the English Language | 3
Concentration Electives (Four Total with Approval of Advisor) – Take Two | 6
Major Core: Survey Course – Take One ⁵ | 3
Complementary Studies or SF State Studies or University Elective – Take Two ⁴ | 3
---|---|---
**Units** | **Total Units** | **120-122**

1. To avoid taking additional units, it is recommended that you meet LL&D and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. Complementary Studies
Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.
1. Foreign Language: 12 units in a single foreign language;
2. 2nd Major, Minor, or Certificate: 12 units of course work taken as part of a second major, a minor or a certificate;
3. Study Abroad: 12 units of course work taken in an approved study abroad program (such as CSU Study Abroad);
4. Related Subjects: 12 units of course work in related disciplines with the approval of an English Department advisor.

Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field. Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

5. Major Survey Course
ENG 460 Literature in English I: Beginnings through the 17th Century (3 units)
ENG 461 Literature in English II: 18th and 19th Centuries (3 units)
ENG 462 Literature in English III: The Twentieth Century (3 units)
# Bachelor of Arts in English: Individual Major Concentration – ENGL

## Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in English. Six lower division units in the major and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information ([http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students](http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students)).

NOTE: The Individual Concentration is recommended only for students who have matriculated in another English concentration (Literature, Linguistics, English Education), and then decide to pursue a more interdisciplinary course of study in consultation with a faculty advisor. In all cases, students who wish to change majors within English should do so during their first semester at SF State, in consultation with a faculty advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays or Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Concentration – Upon Advisement – Take Two</td>
<td></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td></td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>Major Concentration – Upon Advisement – Take Three</td>
<td></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 690</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–15 Units**
- ENG 214 or equivalent A4 course (0 units): satisfied via completion of English AA-T
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units): Check for literature courses approved for UD GE (C) that also satisfy major requirements.
- Students entering this major with the AA-T in English are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**English (Individual) Major: 39 Units**
Six lower division units met in transfer; see major advisor regarding how to apply these and additional units, if any.
- Major Core/GWAR (15 units)
- Major Concentration (21 units): Select in consultation with an advisor.
- Culminating Experience (3 units): ENG 690

**University Electives: Six or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Bachelor of Arts in English: Concentration in Linguistics

General Information

Students considering teaching in the secondary schools should see a departmental credential advisor before planning their program. Specific courses and an assessment of competencies are required for admission to the Secondary Education Credential program. Students should also contact the Credential and Graduate Services Center, Burk Hall 244, (415) 405–3594, regarding teaching credential information.

English majors with concentrations in Literature, Linguistics, or Individual Major are required to complete a 45 unit program consisting of six units of lower-division prerequisites, 15 units of core requirements, 21 units in an area of concentration, and three units of culminating experience. English majors with a concentration in English Education must complete six units of lower-division prerequisites, 12 units of core requirements, between 23 and 26 units in the concentration (including three units of culminating experience), plus 12 to 22 units in an area of emphasis.

A maximum of nine units of work in lower division literature courses may be accepted for credit in the major upon consent of an advisor.

Advanced Placement (A.P.) credit in composition cannot be used to fulfill the lower-division literature requirement in the major or minor.

Completion of ENG 480GW with a grade of C or higher fulfills the Graduating Writing Assessment Requirement (GWAR) for all English majors.

Culminating Experience must be completed during either the final semester or one of the semesters of the student’s final (senior) year, depending on the English major concentration. For more information, please refer to the relevant major concentration section in this Bulletin.

English (B.A.): Concentration in Linguistics — 45 Units

Lower-division (6 Units)

Two lower-division courses in literature (to be taken as prerequisite or corequisite with ENG 480GW).

Core Requirements (15 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 420</td>
<td>Introduction to the Study of Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td></td>
</tr>
</tbody>
</table>

Upper-division Survey Courses

Select two of the following: 6

- ENG 460 Literature in English I: Beginnings through the 17th Century
- ENG 461 Literature in English II: 18th and 19th Centuries
- ENG 462 Literature in English III: The Twentieth Century

Concentration: Linguistics (24 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 421</td>
<td>SYNTAX</td>
<td>3</td>
</tr>
<tr>
<td>ENG 424</td>
<td>Phonology and Morphology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Four courses (12 units), chosen with approval of advisor.

Culminating Experience

This course must be completed during the spring semester of the student’s final (senior) year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 422</td>
<td>History of the English Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must have a GPA of 2.0 or higher in the major, and no grade in the major lower than C- (except for ENG 480GW, which requires a grade of C or higher).

Complementary Studies Requirement for English Majors

Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.

1. Foreign Language: 12 units in a single foreign language;
2. 2nd Major, minor, or certificate: 12 units of coursework taken as part of a second major, a minor or a certificate;
3. Study Abroad: 12 units of coursework taken in an approved study abroad program (such as CSU Study Abroad);
4. Related Subjects: 12 units of coursework in related disciplines with the permission of an English Department advisor.

Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field.

Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
</tbody>
</table>
First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 788)

Transfer Student Roadmap (2 Year)
For students with an AA-T in English. This roadmap opens in a new tab. (p. 790)

This degree program is an approved pathway (“similar” major) for students earning the ADT in English
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferrable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if
course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in English: Concentration in Linguistics Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) (^1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) (^2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower-division Literature Course in English</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) (^3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower-division Literature Course in English</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) (^3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three (^4)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ENG 420</td>
<td>Introduction to the Study of Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two (^4)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 421</td>
<td>SYNTAX</td>
<td>3</td>
</tr>
<tr>
<td>ENG 424</td>
<td>Phonology and Morphology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583 or ENG 584</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or Shakespeare: Selected Plays</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core: Survey Course (Two Total) – Take One (^5)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Concentration Electives (Four Total with Approval of Advisor) – Take Two</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td>3</td>
</tr>
<tr>
<td>Major Core: Survey Course (Two Total) – Take One (^5)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Concentration Electives (Four Total with Approval of Advisor) – Take One</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Complementary Studies or SF State Studies or University Elective 4

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>ENG 422</th>
<th>History of the English Language</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration Electives (Four Total with Approval of Advisor) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies Requirement for English Majors**
   Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.
   1. Foreign Language: 12 units in a single foreign language;
   2. 2nd Major, minor, or certificate: 12 units of coursework taken as part of a second major, a minor or a certificate;
   3. Study Abroad: 12 units of coursework taken in an approved study abroad program (such as CSU Study Abroad);
   4. Related Subjects: 12 units of coursework in related disciplines with the approval of an English Department advisor.

   Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field. Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
5. **Upper-Division Survey Courses**
   ENG 460 Literature in English I: Beginnings through the 17th Century (3 units)
   ENG 461 Literature in English II: 18th and 19th Centuries (3 units)
   ENG 462 Literature in English III: The Twentieth Century (3 units)
Bachelor of Arts in English: Concentration in Linguistics – ENGL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in English. Six lower division units in the major and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 421</td>
<td>SYNTAX</td>
<td>3</td>
</tr>
<tr>
<td>ENG 424</td>
<td>Phonology and Morphology</td>
<td></td>
</tr>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td></td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
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</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td></td>
</tr>
<tr>
<td>Major Concentration Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Concentration – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ENG 421</td>
<td>SYNTAX</td>
<td></td>
</tr>
<tr>
<td>ENG 424</td>
<td>Phonology and Morphology</td>
<td></td>
</tr>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td></td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

San Francisco State University Bulletin 2017-2018 Bachelor of Art s in English: Concentration in Linguistics – ENGL Associate Degree for Transfer Roadmap
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–15 Units**
- ENG 214 or equivalent A4 course (0 units) – satisfied via completion of English AA-T.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
- Students entering this major with the AA-T in English are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**English (Linguistics) Major: 36–39 Units**
Six lower division units met in transfer; see dept. advisor regarding how to apply additional units, if any.
- Major Core/GWAR (15 units)
- Major Concentration/Linguistics (9 units)
- Major Concentration/Electives (9–12 units): Select in consultation with an advisor.
- Culminating Experience (3 units): ENG 422. Must be taken in final semester of the final year.

**University Electives: Six or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Bachelor of Arts in English: Concentration in Literature

General Information
Students considering teaching in the secondary schools should see a departmental credential advisor before planning their program. Specific courses and an assessment of competencies are required for admission to the Secondary Education Credential program. Students should also contact the Credential and Graduate Services Center, Burk Hall 244, (415) 405-3594, regarding teaching credential information.

English majors with concentrations in Literature, Linguistics, or Individual Major are required to complete a 45 unit program consisting of six units of lower division prerequisites, 15 units of core requirements, 21 units in an area of concentration, and three units of culminating experience. English majors with a concentration in English Education must complete six units of lower division prerequisites, 12 units of core requirements, between 23 and 26 units in the concentration (including three units of culminating experience), plus 12 to 22 units in an area of emphasis.

A maximum of nine units of work in lower-division literature courses may be accepted for credit in the major upon consent of an advisor.

Advanced Placement (A.P.) credit in composition cannot be used to fulfill the lower-division literature requirement in the major or minor.

Completion of ENG 480GW with a grade of C or higher fulfills the Graduation Writing Assessment Requirement (GWAR) for all English majors.

Culminating Experience must be completed during either the final semester or one of the semesters of the student’s final (senior) year, depending on the English major concentration. For more information, please refer to the relevant major concentration section in this Bulletin.

A maximum of nine units of literature classes from other departments (such as Comparative and World Literature) may be accepted for credit in the major upon consent of an advisor.

English (B.A.): Concentration in Literature — 45 Units

Lower-division Prerequisites/Corequisites (6 Units)
Two lower-division courses in literature (to be taken as prerequisite or corequisite with ENG 480GW.

Core Requirements (15 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration: Literature (24 Units)
- One course in linguistics with the approval of advisor.
- One course in theory or criticism with the approval of advisor.

- One course in Global Literatures in English with the approval of advisor.

Electives
Students must fulfill a 12 unit pre-1800 distribution requirement. This can be done with either one of these elective courses or ENG 690 if it is in a pre-1800 literary subject.

Culminating Experience
This course must be completed during one of the semesters of the final (senior) year; if the course is in a pre-1800 literary subject, it may also fulfill the pre-1800 distribution requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 690</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must have a GPA of 2.0 or higher in the major, and no grade in the major lower than C− (except for ENG 480GW, which requires a grade of C or higher).

Complementary Studies Requirement for English Majors
Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.

1. Foreign Language: 12 units in a single foreign language;
2. 2nd Major, Minor, or Certificate: 12 units of course work taken as part of a second major, a minor or a certificate;
3. Study Abroad: 12 units of course work taken in an approved study abroad program (such as CSU Study Abroad);
4. Related Subjects: 12 units of course work in related disciplines with the approval of an English Department advisor.

Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field.

Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Level</th>
<th>Units</th>
<th>Area Designation</th>
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</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
</tbody>
</table>
This degree program is an approved pathway ("similar" major) for students earning the ADT in English

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:
• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in English: Concentration in Literature Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or</td>
<td>Critical Thinking (A3)</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and</td>
<td>California Government (D3)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower</td>
<td>Division Course in Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or</td>
<td>Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
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</tr>
<tr>
<td>or Written English Communication (A2)</td>
<td>Stretch II</td>
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<tr>
<td>GE Area B: Physical Science (B1) and</td>
<td>Laboratory Science (B3)</td>
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</tr>
<tr>
<td>Complementary Studies or SF State</td>
<td>Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Prerequisite (Two Total): Lower</td>
<td>Division Course in Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and</td>
<td>Laboratory Science (B3)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and</td>
<td>California Government (D3)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
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<td>9</td>
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<td><strong>Units</strong></td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
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</tr>
<tr>
<td>Major Concentration: One Linguistics</td>
<td>Course with Approval of Advisor</td>
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<td>Major Elective</td>
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</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical</td>
<td>and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 583</td>
<td>Shakespeare: Representative Plays or Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration: One Course in</td>
<td>Theory or Criticism with Approval of Advisor</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or</td>
<td>Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td>3</td>
</tr>
</tbody>
</table>
Major Concentration: One Global Literature Course in English with Approval of Advisor 3
Major Elective 3 3
GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective 4 3

<table>
<thead>
<tr>
<th>Units</th>
<th>15</th>
</tr>
</thead>
</table>

Eighth Semester

<table>
<thead>
<tr>
<th>ENG 462</th>
<th>Literature in English III: The Twentieth Century 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 690</td>
<td>Senior Seminar 3</td>
</tr>
<tr>
<td>Major Elective 3</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
<td>6</td>
</tr>
<tr>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4 Complementary Studies Requirement for English Majors

Twelve units of complementary studies are required of all candidates in any of the four concentrations (Literature, Linguistics, English Education and Individual Major) in the Bachelor of Arts degree in English. These units must come from courses bearing a prefix other than ENG, and must not be cross-listed with ENG. English majors will be offered four pathways for satisfying this requirement; each pathway is designed to facilitate graduation in a timely manner.

1. Foreign Language: 12 units in a single foreign language;
2. 2nd Major, Minor, or Certificate: 12 units of course work taken as part of a second major, a minor or a certificate;
3. Study Abroad: 12 units of course work taken in an approved study abroad program (such as CSU Study Abroad);
4. Related Subjects: 12 units of course work in related disciplines with the approval of an English Department advisor.

Related subjects typically include (but are not limited to) Comparative and World Literature, Classics, Creative Writing, Ethnic Studies, Foreign Languages, History, Journalism, and Women and Gender Studies. For this option, six units must be from classes in a non-literary related field. Depending on the concentration within the major, CS pathway, and with the approval of a departmental advisor, up to 12 units from courses with non-ENG prefixes that count towards the Complementary Studies requirement may also count as English electives in fulfillment of Major requirements.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

5 Students must fulfill a 12 units pre-1800 distribution requirement. This can be done with either one of these elective courses, or ENG 690, if it is in a pre-1800 literary subject.
Bachelor of Arts in English: Concentration in Literature – ENGL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in English. Six lower division units in the major and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>ENG 583 or ENG 584</td>
<td>Shakespeare: Representative Plays or Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Concentration (Linguistics)</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Major Concentration (Theory or Criticism)</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. and California Government (p. 75)</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 460</td>
<td>Literature in English I: Beginnings through the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENG 461</td>
<td>Literature in English II: 18th and 19th Centuries</td>
<td></td>
</tr>
<tr>
<td>ENG 462</td>
<td>Literature in English III: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td><strong>Major Concentration (Global Literatures)</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Major Concentration (Elective) – Take Two</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 690</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Concentration (Elective) – Take Two</strong></td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Upper Division GE: UD-B, UD-C, or UD-D 3
University Elective 3

<table>
<thead>
<tr>
<th>Units</th>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>60</td>
</tr>
</tbody>
</table>

1 Within the 12 units of electives, take one three unit course to satisfy the pre-1800 distribution requirement. However, if the ENG 690 topic addresses a pre-1800 literary subject, this can fulfill the pre-1800 distribution requirement instead.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–15 Units**

- ENG 214 or equivalent A4 course (0 units) – satisfied via completion of English AA-T.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer.
- Upper division GE, areas B, C and D (9 units): Check for literature courses approved for UD GE (C) that also satisfy major requirements.
- Students entering this major with the AA-T in English are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**English (Literature) Major: 39 Units**

Six lower division units met in transfer; see major advisor regarding how to apply these and additional units, if any.

- Major Core/GWAR (15 units)
- Major Concentration (9 units): one course each in linguistics, theory or criticism, and global literatures. Select in consultation with a major advisor.
- Major Concentration/Electives (12 units): One elective course must be in literature before 1800. See Note 1 above.
- Culminating Experience (3 units): ENG 690. Must be taken in one of the final two semesters. See Note 1 above.

**University Electives: Six or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Bachelor of Arts in Technical and Professional Writing

Technical and Professional Writing (B.A.) — 45 units

Culminating Experience must be completed during one of the semesters of the student’s final (senior) year.

Core Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPW 400GW</td>
<td>Fundamentals of Technical and Professional Writing - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>TPW 550</td>
<td>Professional Editing</td>
<td>3</td>
</tr>
<tr>
<td>TPW 555</td>
<td>Visual Rhetoric and Document Design</td>
<td>3</td>
</tr>
<tr>
<td>TPW 600</td>
<td>Individual and Team Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Skills Electives (15 units)

Select a minimum of six units from the list below and nine additional units either from the list below or interdisciplinary courses approved by your TPW advisor. Note: Skills electives cannot be from the department chosen for the subject matter focus.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPW 200</td>
<td>Writing Practices in Professional Contexts</td>
<td>3</td>
</tr>
<tr>
<td>TPW 470</td>
<td>Writing Professional Promotions</td>
<td>3</td>
</tr>
<tr>
<td>TPW 480</td>
<td>Writing Technical Documentation</td>
<td>3</td>
</tr>
<tr>
<td>TPW 490</td>
<td>Grantwriting</td>
<td>3</td>
</tr>
<tr>
<td>TPW 585</td>
<td>Technical Writing Online</td>
<td>3</td>
</tr>
<tr>
<td>TPW 685</td>
<td>Projects in the Teaching of Technical and Professional Writing</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Optional interdisciplinary course work typically would cover applied writing or editing; linguistics; organizational communication; graphic design and production; multimedia or computer tools; foreign language for business; or special topics related to workplace writing.

Subject Matter Focus (15 units)

Select a single one of the tracks below and complete 15 units according to the instructions. Note: All focus courses must be 200 level or above, with at least nine units at 300-level or above.

Communications Track Options

Courses selected from any single one of these departments:

- Communication Studies
- Foreign Languages
- Journalism
- Broadcast and Electronic Communication Arts
- Design and Industry
- Instructional Technologies

Technical Track Options

Courses selected from any single department in the College of Science and Engineering, any single department in the College of Business, or any single TPW advisor-approved department in the College of Health and Social Sciences.

Interdisciplinary Track Options

Courses selected to fit a customized concentration (based on an independently developed theme or an existing interdisciplinary program) that is approved by the TPW advisor as relevant for technical or professional writing. (Examples: Arts Administration, Multimedia, Environmental Studies).

Culminating Experience (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPW 695</td>
<td>Internship in Technical and Professional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

This course must be completed during one of the semesters of the final (senior) year.

Note: All units applied to the TPW B.A. must be earned with a grade of C or better.

Complementary Studies (12 units)

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Technical and Professional Writing. These units must come from courses bearing a prefix other than TPW, and not cross-listed with TPW. TPW majors can complete the requirement from within the major by taking 12 of the 15 units of classes required for their Subject Matter Focus. The Subject Matter Focus requires students to take 15 units of courses from a pre-approved list of non-TPW departments (e.g., Communication Studies, Journalism, Instructional Technology, Marketing), or to create a customized concentration based on courses from a mix of non-TPW departments, as approved by their major advisor. Although CS is already satisfied in the major itself, if students wish they may also meet their CS requirement by Study Abroad, courses taken in a secondary major or minor or certificate, or by choosing to take 12 units of a foreign language, any of which would also enhance the degree.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Written English II</td>
<td>LD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
</tbody>
</table>
Lifelong Learning  LD or UD  3  E
and Self-
Development (LLD)
Physical and/or
Life Science  UD  3  UD-B
Arts and/or
Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial
Minorities (AERM)  LD or UD  3
Environmental
Sustainability (ES)  LD or UD  3
Global Perspectives
(GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)
This 2017–2018 roadmap (p. 802) opens in a new tab.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:
   • Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.
   • Complete 60 or more transferable semester units or 90 or more quarter units
   • Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
   • Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Technical and Professional Writing Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁴</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three ⁴</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>TPW 400GW</td>
<td>Fundamentals of Technical and Professional Writing - GWAR ⁴</td>
<td>3</td>
</tr>
<tr>
<td>Major Skill Elective (15 units total) – Take Two ⁵</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Major Subject Matter Focus (15 units total) ⁶</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>TPW 550</td>
<td>Professional Editing</td>
<td>3</td>
</tr>
<tr>
<td>Major Skill Elective (15 units total) – Take Two ⁵</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Major Subject Matter Focus (15 units total) ⁶</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Concentration Electives (4 total) Selected with Approval of Advisor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>TPW 555</td>
<td>Visual Rhetoric and Document Design</td>
<td>3</td>
</tr>
<tr>
<td>Major Skill Elective (15 units total) ⁵</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Subject Matter Focus (15 units total) – Take Two ⁶</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPW 695 Internship in Technical and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>Major Subject Matter Focus (15 units total)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units: 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies (12 units)**
   Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Technical and Professional Writing. These units must come from courses bearing a prefix other than TPW, and not cross-listed with TPW. TPW majors can complete the requirement from within the major by taking 12 of the 15 units of classes required for their Subject Matter Focus. The Subject Matter Focus requires students to take 15 units of courses from a pre-approved list of non-TPW departments (e.g., Communication Studies, Journalism, Instructional Technology, Marketing), or to create a customized concentration based on courses from a mix of non-TPW departments, as approved by their major advisor. Although CS is already satisfied in the major itself, if students wish they may also meet their CS requirement by Study Abroad, courses taken in a secondary major or minor or certificate, or by choosing to take 12 units of a foreign language, any of which would also enhance the degree.

5. **Skills Electives**
   Select a minimum of six units from the list and nine additional units either from the list below or from interdisciplinary courses approved by your TPW advisor. Note: Skills electives cannot be from the department chosen for the subject matter focus.
   - TPW 200 Writing Practices in Professional Contexts (3 units)
   - TPW 470 Writing Professional Promotions (3 units)
   - TPW 480 Writing Technical Documentation (3 units)
   - TPW 490 Grantwriting (3 units)
   - TPW 585 Technical Writing Online (3 units)
   - TPW 685 Projects in the Teaching of Technical and Professional Writing (1-4 units)

6. Select a single one of the tracks below and complete 15 units according to the instructions. Note: All focus courses must be 200-level or above, with at least nine units at 300-level or above.

**Communications Track Options**
Courses selected from any single one of these departments:
- Communication Studies
- Foreign Languages
- Journalism
- Broadcast and Electronic Communication Arts
- Design and Industry
- Instructional Technologies

**Technical Track Options**
Courses selected from any single department in the College of Science and Engineering, any single department in the College of Business, or any single TPW advisor-approved department in the College of Health and Social Sciences.

**Interdisciplinary Track Options**
Courses selected to fit a customized concentration (based on an independently developed theme or on an existing interdisciplinary program) that is approved by the TPW advisor as relevant for technical or professional writing. (Examples: Arts Administration, Multimedia, Environmental Studies).
Certificate in Immigrant Literacies

The Certificate in Immigrant Literacies is designed to provide academic training in the study of language, literacies, and the immigrant experience. The program integrates community service learning to enable certificate students to integrate their professional expertise and cross-disciplinary thinking with meaningful civic action.

Admissions Requirements and Application Process

All applicants must submit the following to the English Department:

- a short personal statement which outlines the applicants’ interests in immigrant language and literacy issues;
- transcript, (official transcripts from all previous colleges attended; unofficial transcript from current program);
- current vita or résumé;
- names and contact information for TWO references. (provide name, job title or relationship, address, phone number); and
- evidence of completion of the University’s Level I written English proficiency requirement 1.

For matriculated graduate students in TESOL: Evidence of completion of the written English proficiency requirement is determined based on a satisfactory evaluation of the student’s Statement of Purpose, submitted to the department as part of the student’s original application to the MA TESOL program.

For matriculated graduate students in other departments: Students should check the requirements as stipulated by their program area.

Applicants who are matriculated graduate students may enter the certificate program at any point after acceptance into a SF State graduate degree program. Graduate students who wish to apply must consult with their advisor immediately to find out how best to sequence their coursework to satisfy both home Department requirements and certificate requirements.

Applicants who are not currently matriculated in any SF State graduate degree program (e.g., in-service ESOL teachers, health professionals) must apply (via graduate admissions) and be admitted to the University and to the graduate certificate program. Acceptance into the program is with the approval of the certificate program director and consent of program faculty following review of the application materials (listed above).

Students interested in admission to the certificate programs need not have completed undergraduate degree programs in English literature or language studies, nor do they need to be enrolled in master’s programs offered in the Department of English. Graduate students from master’s programs offered in this department should contact their advisors to find out how many of the certificate courses may be used towards meeting degree requirements in their M.A. program. Unclassified graduate students and candidates for degrees in other departments may be accepted into the program with the approval of the certificate faculty.

Out-of-state and international students are welcome to apply to the program. For applicants whose native language is not English: a recent internet-based TOEFL (IBT) score of 95, with an essay rating of 24. Applicants who do not meet the minimum TOEFL requirement will NOT be admitted; there is NO conditional admission. A TOEFL score of 95 is considered to be very minimal; applicants who demonstrate stronger English proficiency with a higher TOEFL score (and higher essay rating) will have a better chance of being admitted.

Immigrant Literacies Certificate — 12 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 735</td>
<td>Community Based Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 736</td>
<td>Seminar in Teaching ESL in the Community</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 833</td>
<td>Seminar: Asian American Family and Identity</td>
<td>3</td>
</tr>
<tr>
<td>AA S 875</td>
<td>Asian American Community Health Issues</td>
<td></td>
</tr>
<tr>
<td>ETHS 710</td>
<td>Theories and Issues in Ethnic Studies</td>
<td></td>
</tr>
<tr>
<td>H ED 810</td>
<td>Public Health and Principles of Community Organizing</td>
<td></td>
</tr>
</tbody>
</table>

H ED 835 | Public Health Policy
OR other graduate-level SF State course related to the topic of immigrant literacies and civic engagement (with approval of advisor).

Capstone

3

Independent Study, e.g., ENG 899 for MA TESOL students; H ED 899 for Master of Public Health students; ETHS 750: Ethnic Community Practicum for Ethnic Studies students; or equivalent graduate-level community service- learning course (with approval of advisor)

Certificate in Teaching Post-Secondary Reading

Admission to Program

For matriculated students, admission to the Certificate in Teaching Post–Secondary Reading program requires completion of the internal English Department application, which should be submitted to the department. The application is available in the main department office, or at english.sfsu.edu, (http://english.sfsu.edu) and must be submitted prior to the first semester of certificate coursework.

Anyone who wishes a certificate but is not currently a matriculated graduate student will need to apply to the university, using the published admissions process, before being considered for admission to the composition or reading certificate programs. For information about how to complete this application, students should consult the appropriate graduate coordinator of the Division of Graduate Studies.

Students interested in admission to the need not have completed undergraduate degree programs in English literature or language studies, nor need they be enrolled in master’s programs offered in the Department of English. Graduate students from master’s programs offered in this department should contact their advisors to find out how many of the courses taken for the composition or reading certificates may be used to meet degree requirements in their M.A. program. Graduate students from masters programs offered in other departments should contact their advisor to find out how many of the courses taken for composition or reading certificates they may use to meet degree requirements in their M.A. program.
Upon completion of all the certificate courses, for the final award of the degree, students must fill out a CAP form (Certificate Approved Program) available on the Graduate Studies website, pay the $7.00 application fee at the Cashier’s Office, and submit the form to the Composition Office in the Humanities Building, Room 480.

All certificate candidates should familiarize themselves with the general guidelines for earning a certificate on this campus. A student planning to earn an undergraduate or graduate certificate must meet the requirements listed in the Certificate Programs (p. 26) section of this Bulletin. Any student who decides he/she wishes to apply for the Master of Arts in English with Concentration in Composition must consult his/her advisor immediately to find out how best to proceed.

Certificate in Teaching Post–Secondary Reading

Written English Proficiency Requirement

Level One

Students will meet Level One requirements in their home department.

Level Two

Students must earn a grade of B or better in all of the required courses.

Teaching Post–Secondary Reading

Certificate – 12 units

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 701</td>
<td>Theoretical Backgrounds in Community College and College Reading Instruction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 709</td>
<td>Seminar in Teaching Integrated Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 710</td>
<td>Course Design in Composition and Post-Secondary Reading</td>
<td>3</td>
</tr>
<tr>
<td>ENG 715</td>
<td>Pedagogy and Practice of Postsecondary Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Applicants admitted for the fall semester should take the following courses in order to complete the certificate in one academic year:

- Fall semester: ENG 715 and ENG 709.
- Spring semester: ENG 701 and ENG 710.

Applicants admitted for the spring semester will receive advising based on the availability of spring courses. Because of the rotation of course offerings, spring admission entails a minimum of three semesters to complete the Certificate in Teaching Post–Secondary Reading.

Certificate in Technical and Professional Writing

In order to be accepted to an undergraduate certificate program, a student must have completed 56 semester units of undergraduate course work with a 2.0 (C) grade point average. A maximum of 6 TPW advisor-approved transfer units is allowed toward the certificate.

Before completing the certificate, students must demonstrate appropriate writing competency by successful completion of the required 18 units of upper-division, writing-intensive TPW course work.

Technical and Professional Writing

Certificate – 24 units

Core Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPW 400G</td>
<td>Fundamentals of Technical and Professional Writing - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>TPW 550</td>
<td>Professional Editing</td>
<td>3</td>
</tr>
<tr>
<td>TPW 555</td>
<td>Visual Rhetoric and Document Design</td>
<td>3</td>
</tr>
<tr>
<td>TPW 695</td>
<td>Internship in Technical and Professional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Skills Electives (12 units)

Chosen from skills electives courses described under the B.A. program (p. 799), including a minimum of 6 TPW units.

Note: All units applied to the TPW certificate must be earned with a grade of C or better.

Certificate in the Teaching of Composition

The Certificate in the Teaching of Composition and the Certificate in Teaching Post-Secondary Reading are designed to provide theoretical and pedagogical preparation for students who plan to teach writing and/or reading in post-secondary classrooms.

Admission to Program

For matriculated students, admission to either or both of the certificate programs requires completion of the internal English Department application, which should be submitted to the department.

This internal application is available in the main department office, or at english.sfsu.edu (http://english.sfsu.edu). Those seeking the Certificates in Teaching Composition or Post-secondary Reading must submit the application prior to their first semester of certificate coursework.

Anyone who wishes to earn a certificate but is not currently a matriculated graduate student will need to apply to the university, using the published admissions process, before being considered for admission to the composition or reading certificate programs. For information about how to complete this application, students should consult the appropriate graduate coordinator of the Division of Graduate Studies.

Students interested in admission to the certificate programs need not have completed undergraduate degree programs in English literature or language studies, nor need they be enrolled in master’s programs offered in the Department of English. Graduate students from master’s programs offered in this department should contact their advisors to find out how many of the courses taken for the composition or reading certificates may be used to meet degree requirements in their M.A. program. Graduate students from masters programs offered in other departments should contact their advisor to find out how many of the courses taken for composition or reading certificates they may use to meet degree requirements in their M.A. program.

Upon completion of all the certificate courses, for the final award of the degree, students must fill out a CAP form (Certificate Approved Program) available on the Graduate Studies website, pay the $7.00 application fee at the Cashier’s Office, and submit the form to the Composition Office in HUM 480 for the Certificates in the Teaching of Composition and Post-Secondary Reading, and to the English Department in HUM 484 for the
Certificate in Immigrant Literacies. Contact the English department in HUM 484 with any questions.

All certificate candidates should familiarize themselves with the general guidelines for earning a certificate on this campus. A student planning to earn an undergraduate or graduate certificate must meet the requirements listed in the Certificate Programs (p. 26) section of this Bulletin. Any student who decides he/she wishes to apply for the Master of Arts in English with Concentration in Composition must consult his/her advisor immediately to find out how best to proceed.

Certificate in the Teaching of Composition
Written English Proficiency Requirement

Level One
Matriculated Students in a graduate program on campus will have satisfied Level One via their home department’s criteria. Students who are matriculated in the certificate program only must submit a writing sample with their application.

Level Two
Students must earn a grade of B or better in ENG 700.

Teaching of Composition, Certificate — 12 Units
Program (12 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 700</td>
<td>Introduction to Composition Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 704</td>
<td>Pedagogical Grammar for Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENG 709</td>
<td>Seminar in Teaching Integrated Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 710</td>
<td>Course Design in Composition and Post-Secondary Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Applicants admitted for the fall semester should take the following courses in order to complete the certificate in one academic year:

- Fall semester: ENG 700 and ENG 709.
- Spring semester: ENG 704 and ENG 710.

Applicants admitted for the spring semester will receive advising based on the availability of spring courses. Because of the rotation of course offerings, spring admission entails a minimum of three semesters to complete the Certificate in Teaching Composition.

The Certificate in the Teaching of Composition and the Certificate in Teaching Post-Secondary Reading are designed to provide theoretical and pedagogical preparation for students who plan to teach writing and/or reading in post-secondary classrooms.

Minor in English and American Literature

English and American Literature Minor — 21 units

Program (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two lower division courses in Literature</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENG 480GW</td>
<td>Junior Seminar - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Select two upper division courses in Literature</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENG 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 584</td>
<td>Shakespeare: Selected Plays</td>
<td></td>
</tr>
</tbody>
</table>

Select one from the following:

- ENG 420 Introduction to the Study of Language
- ENG 421 SYNTAX
- ENG 422 History of the English Language
- ENG 425 Language in Context
- ENG 429 Stylistics

Note: One literature course, lower or upper division, must be in Global Literatures in English.

Minor in Linguistics

Linguistics Minor — 21 units

Program (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 420</td>
<td>Introduction to the Study of Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 421</td>
<td>SYNTAX</td>
<td>3</td>
</tr>
<tr>
<td>ENG 424</td>
<td>Phonology and Morphology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 425</td>
<td>Language in Context</td>
<td>3</td>
</tr>
<tr>
<td>Select two lower or upper division courses in literature</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENG 422</td>
<td>History of the English Language</td>
<td></td>
</tr>
<tr>
<td>ENG 426</td>
<td>Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>ENG 429</td>
<td>Stylistics</td>
<td></td>
</tr>
</tbody>
</table>

Minor in Technical and Professional Writing

A maximum of 6 TPW advisor-approved transfer units is allowed toward the minor.

Technical and Professional Writing Minor — 24 units

Core Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPW 400GW</td>
<td>Fundamentals of Technical and Professional Writing - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>TPW 550</td>
<td>Professional Editing</td>
<td>3</td>
</tr>
<tr>
<td>TPW 555</td>
<td>Visual Rhetoric and Document Design</td>
<td>3</td>
</tr>
<tr>
<td>TPW 695</td>
<td>Internship in Technical and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>Skills Electives — Choose four of the following:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>TPW 200</td>
<td>Writing Practices in Professional Contexts</td>
<td></td>
</tr>
<tr>
<td>TPW 470</td>
<td>Writing Professional Promotions</td>
<td></td>
</tr>
<tr>
<td>TPW 480</td>
<td>Writing Technical Documentation</td>
<td></td>
</tr>
<tr>
<td>TPW 490</td>
<td>Grantwriting</td>
<td></td>
</tr>
<tr>
<td>TPW 585</td>
<td>Technical Writing Online</td>
<td></td>
</tr>
<tr>
<td>TPW 600</td>
<td>Individual and Team Writing</td>
<td></td>
</tr>
<tr>
<td>TPW 685</td>
<td>Projects in the Teaching of Technical and Professional Writing</td>
<td></td>
</tr>
</tbody>
</table>

Note: All units applied to the Technical and Professional Writing minor must be earned with a grade of C or better.
Master of Arts in English: Concentration in Composition

Admission to Program
In addition to the materials sent to the graduate admissions office, the applicant must submit the following items to the English Department:

- a one to two page typed statement of purpose in which the applicants are to explain their interest in pursuing the M.A. degree, including describing any previous teaching, tutoring, training, writing or editing experience that may contribute to their success in the program; discuss their readiness to meet the rigors of graduate-level coursework; and explain how this degree will further their career plans. The statement of purpose must demonstrate the applicants’ ability to produce clear, cogent, and polished prose;
- a recent writing sample of seven to 10 pages. This writing should be analytic in nature. It may be from a previous course or it may be writing that the applicants have undertaken in a professional pursuit beyond the classroom;
- a statement with the applicants’ signature certifying that the writing sample is their own work;
- one set of official transcripts from all colleges attended;
- two letters of recommendation that speak to the applicants’ academic potential and/or their potential as future educators.

Applicants without an undergraduate major in English or a related field may be required to complete additional preparatory coursework in literature, linguistics, education or related field before being advanced to classified standing and filing the Advancement to Candidacy (ATC).

Students must take ENG 700 as early as possible in the program (preferably during the first semester) and complete the course with a grade of B in order to continue with other courses in the program.

The master’s program permits students to include on their ATC only courses in which they have received grades of B or better.

Students completing this program are expected to be able to write prose publishable in academic journals.

Written English Proficiency Requirement

Level One
Evaluation of the writing sample submitted as part of the application packet.

Level Two
Satisfactory completion of ENG 895.

English (M.A.): Concentration in Composition – 30 units

Core Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 700</td>
<td>Introduction to Composition Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 704</td>
<td>Pedagogical Grammar for Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENG 709</td>
<td>Seminar in Teaching Integrated Reading and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 710</td>
<td>Course Design in Composition and Post-Secondary Reading</td>
<td>3</td>
</tr>
<tr>
<td>ENG 895</td>
<td>Field Study or Applied Research Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Applicants admitted for the fall semester should take the following four core courses during their first academic year in the program:
- Fall semester: ENG 700 and ENG 709.
- Spring semester: ENG 704 and ENG 710.

Applicants admitted for the spring semester will receive advising based on the availability of spring courses. Because of the rotation of course offerings, spring admission entails a minimum of five semesters to complete the program.

Electives (15 units)

to be taken with the approval of an advisor.

Culminating Experience

A field study or research project must be successfully completed by all candidates for the degree. The field study or research project, which investigates and/or applies knowledge acquired in the student’s program of study, must have the recommendation and approval of two faculty field study or research project advisors. All SF State specifications for completion of a field study or research project must be met. Students who fail ENG 895 will receive an incomplete (I) grade and may resubmit their project once for a passing grade. If their project fails a second time, they will be recommended for declasification.

Master of Arts in English: Concentration in Linguistics

Admission to Program
In addition to the materials sent to the graduate admissions office, the applicant must submit the following items to the English Department in order to be considered for admission:

- a one-to-two page typed statement of purpose detailing why the applicant is interested in the linguistics concentration;
- one set of official transcripts from all colleges attended;
- one or two letters of recommendation;
- one writing sample.

Prerequisites: In order to be fully classified, students must have already taken the equivalents, or take at SF State the following:

- Linguistics: ENG 421, ENG 422, ENG 424, and ENG 425 (12 units).
- 10 units of a modern European language.
- One semester of a non-Indo-European language.

All linguistics courses must be taken for a letter grade, and students must have a 3.0 cumulative GPA in these courses with no grade lower than a B- to continue in the program.

Students whose native language is not English and whose B.A. was completed outside the United States must present evidence of a computer–based TOEFL score of at least 240 (Internet-based TOEFL: 95, paper-based TOEFL 590) with a writing subscore of at least 4.5. (Internet-based writing score of at least 24). Applicants who do not meet this minimum TOEFL requirement will not be admitted; there is no conditional admission. A TOEFL score of 240 is considered to be very minimal; applicants who demonstrate stronger English proficiency with a higher TOEFL score (and higher writing subscore) will have a better chance of
being recommended for admission to the program for the Master of Arts in English with Concentration in Linguistics.

In addition, non-native speakers of English must take the CMS Placement Test (CMSPT) for assessment of their English writing proficiency upon entry to the university. They may be required to take ENG 670 and/or other writing course(s).

Written English Proficiency Requirement

Level One
Students will be evaluated for Level One proficiency in writing based on the 500–700 word personal statement as well as the writing sample that are submitted as part of their application to the M.A. program. Students whose writing ability is not satisfactory will be required to take a graduate-level composition course such as ENG 670. This course may not be used to fulfill other requirements for the degree.

Level Two
Satisfactory performance in ENG 895 or ENG 896.

English (M.A.): Concentration in Linguistics — Minimum 30 Units

Group I: Required Core Courses (18 Units)
ENG 719 Seminar: Contemporary Semantic Theory 3
ENG 723 Seminar in the Structure of English 3
ENG 725 Seminar in Discourse Analysis 3
ENG 727 Linguistic Field Methods 3
ENG 728 Topics in Sociolinguistics 3
ENG 889 Integrated Studies in Linguistics 3

Group II: Related Core Courses (3 Units)

Theoretical and Applied Linguistics
ENG 728 Topics in Sociolinguistics 3
ENG 729 Seminar in Psycholinguistics 3
ENG 737 Introduction to Corpus Linguistics 3
ENG 799 Advanced Field Methods 3
PHIL 630 Philosophy of Language 3
or PHIL 830 Seminar in Philosophy of Language 3

Quantitative Reasoning and Research Methodology
ANTH 652 Anthropological Statistics 4
MATH 324 Probability and Statistics with Computing 3
MATH 338 Introduction to SAS 3
PSY 371 Psychological Statistics 3
PSY 571 Intermediate Psychological Statistics 3
PSY 771 Analysis of Variance and Experimental Design 4
PSY 772 Applications of Multiple Regression to Psychological Research 4

Any courses in Group II that are not selected for the Group II requirement may be used as Related Elective Courses with the approval of an advisor.

Related Elective Courses (6 Units)
Units to be taken from one or more of the following courses or other courses approved of by an advisor.

Linguistics
ENG 804 Teaching Practicum: Linguistics 3

Teaching English to Speakers of Other Languages
ENG 653 TESOL: Pedagogical Grammar 3
ENG 724 Special Topics in Teaching English to Speakers of Other Languages 3
ENG 726 Practicum in Teaching English to Speakers of Other Languages 3
ENG 731 Seminar: TESOL Listening and Speaking Skills 3
ENG 732 Seminar: TESOL Reading and Writing Skills 3
ENG 738 Pragmatics and Oral Skills 3

Communication Studies
COMM 664 LSI Methods in Communication 4
COMM 871 Communication Research Strategies 4

Reading and Writing
ENG 704 Pedagogical Grammar for Composition 3
ENG 706 Seminar in Sociolinguistics of Composition 3

Literature
ENG 782 Seminar: Chaucer 3
Select one of the following:
3 and Master’s Comprehensive Oral Examination
Foreign Language Requirement (see below)

Culminating Experience
Select one from the following:
ENG 898 Master’s Thesis 3
ENG 895 Field Study or Applied Research Project (and Master’s Comprehensive Oral Examination) 3
and Foreign Language Requirement (see below)

During the second-to-last semester in the program, students are required to complete a formal called the Advancement to Candidacy (ATC), which lists those courses they are using to fulfill the requirements for the Master of Arts in English with Concentration in Linguistics. Students must earn an overall GPA of 3.0 or better in all courses listed in that document.

Master’s Examinations
Failure in these examinations does not disqualify the candidate unless the examining committee so directs. The candidate may take the examinations twice, and, if failure occurs both times, will be disqualified from the graduate program.

Foreign Language Requirement
10 semester units, or the equivalent, of a modern European language, plus a minimum of one semester or the equivalent of a non-Indo-European language is required of all candidates for the Master of Arts in English with Concentration in Linguistics. The student has the alternative of satisfying the foreign language requirement by examination. Units earned in foreign language study are not to be included in the student’s Advancement to Candidacy (ATC).
Master of Arts in English: Concentration in Literature

Admission to Program
Applicants must meet general university requirements as stated in this Bulletin. Admission to the literature concentration is competitive.

In addition to the materials sent to the graduate admissions office, the applicants must submit the following items to the English Department. Contact the graduate secretary in English for the department application and deadlines:

- the departmental application;
- at least two academic letters of recommendation, preferably from a current or former literature professor;
- one official set of transcripts; a one to two-page statement of purpose detailing why the applicant is interested in the study of literature;
- and a writing sample (a critical or scholarly essay of five to ten pages, preferably one written as part of a literature course).

If the applicant’s undergraduate record, writing samples, and letters of recommendation meet the basic requirements and give promise of a successful pursuit of graduate work, the department will recommend that the applicant be admitted either to classified graduate standing (which means that the student may immediately proceed to take graduate courses and seminars) or conditional standing, specifying the conditions and time limit within which they must be met.

To be considered for classified admission to the graduate program in Literature, an applicant must have

1. completed an undergraduate degree in English comparable to the undergraduate major program at SF State, and
2. have achieved a grade point average of at least 3.3 in the major.

A classified graduate student is ready to take ENG 741, the seminar which functions as a "portal course" to further seminar work. Applicants whose undergraduate major was not English or whose GPA in the major falls below 3.3 may be given conditional admission. Applicants given conditional admission may not take seminars in the range 741–790 until they have achieved classified status.

There are three categories of conditional admission:

- With subject matter deficiency: Usually given to applicants with a 3.3 or higher GPA in an undergraduate major other than English with either some courses in literature (with a 3.3 or higher GPA) or a background showing substantial personal interest in literature. The applicant will be directed by a graduate advisor to complete course work in this university's undergraduate major, but such courses may not be credited toward the M.A. program.

- With a grade point average deficiency: Usually given to applicants with a GPA of 3.0 to 3.3 in an undergraduate English major. The applicant is required to take nine to 12 units of upper division literature courses, with a GPA of at least 3.3 attained in them, before being admitted to graduate work. These courses may be credited toward the Master of Arts in English with Concentration in Literature program. If the required GPA is not attained, the student will be disqualified from the M.A. program in literature.

- With both subject matter and GPA deficiency. The applicant is in conditional status as described in "grade point average deficiency" while earning undergraduate major units as described in "subject matter deficiency."

Written English Proficiency Requirement
Level One
The Graduate Literature Curriculum Committee will evaluate the writing sample submitted as part of the application packet for

1. mechanics and usage of English,
2. coherence and argumentation, and
3. understanding of the conventions of writing literary critical arguments.

Level Two
This requirement will be satisfied in one of two ways:

1. The CE thesis will be evaluated using a rubric addressing
   a. mechanics and usage of English,
   b. coherence and argumentation, and
   c. understanding of the conventions of literary criticism. Students must score at least satisfactory on all three criteria to pass Level Two writing. Students who do not achieve these standards may revise and resubmit their thesis.

2. Students pursuing the CE exam will submit a seminar paper to be evaluated according to the criteria outlined above.

Program
The program consists of 10 courses (minimum 30 units) of which eight courses (minimum 24 units) must be graduate level courses. Of these graduate courses, six (18 units) must be English Department courses, of which six (18 units) must be seminars from the 742–790 range, or ENG 820. Students may choose either an emphasis in General Studies or Special Studies. See guidelines for each emphasis after the Program Requirements.

English (M.A.): Concentration in Literature — 30 Units

Program

<table>
<thead>
<tr>
<th>Course (Course Title)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 741 Seminar: Literary Theory and Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Select six courses from the following:</td>
<td>18</td>
</tr>
<tr>
<td>ENG 742—ENG 790</td>
<td></td>
</tr>
<tr>
<td>ENG 820 The Constructed Body in Literature</td>
<td>6</td>
</tr>
<tr>
<td>Select two elective courses to be taken with the approval of an advisor</td>
<td></td>
</tr>
<tr>
<td>ENG 898 or ENG 896 Master's Thesis Directed Readings in Preparation for the CE Examination</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: The only pedagogy courses that may be included among the electives are ENG 717 and ENG 803. ENG 704 and ENG 715 may not be included. Related courses from other departments (up to 6 units with approval of advisor) may be included.

Students must earn a grade of B or better in all courses listed on the ATC.
All students follow the General Studies Emphasis unless the Special Studies Emphasis is chosen before completing four of the required ten courses (see below).

**General Studies Emphasis**
Students are required to take one course from those listed below under the category Literary History, and one course from those listed under the category Literary Theories and Methods. The department recommends that students take at least two courses from each category.

**Literary History**
*Graduate Seminars*
ENG 750–ENG 789

**Literary Theories and Methods**
*Graduate Seminars*
ENG 742  Seminar: Studies in Criticism  3  
ENG 744  Seminar: Literature and Psychology  3  
ENG 746  Seminar: Opera and Literature  3  
ENG 747  Feminist Criticisms  3  
ENG 748  Rhetoric, Politics, and Ethics of Deconstruction  3  
ENG 790  Seminar: Selected Studies  3  
or classes approved by an advisor

**Early Period Requirement**
Three of the 30 units in the General Studies Emphasis must be chosen from graduate courses in literature before 1800. The early period requirement may be met by courses that also fulfill the program requirements listed above (for example, the early period course might also count as the Literary History or Literary Theories and Methods required course, or it might count as an elective). Thus, the early period requirement is a distribution requirement, not a core requirement.

**Special Studies Emphasis**
The special studies emphasis is available to students whose proposed fields of study (for example, cultural criticism or reader response approaches to literature) do not fall readily within the Literary History and Literary Theories and Methods rubrics of the general studies emphasis. Students who wish to focus on special studies must define their course of study in a written proposal submitted early in their graduate career and before completing four of the required 10 courses. The proposal must be approved and signed by a graduate advisor and by the English Department’s graduate literature program coordinator.

The number of courses and seminars, graduate level courses, and electives selected individually by the student and proposed for the special studies emphasis must conform to the program requirements (see above).

**Culminating Experience**
All students, whether they are pursuing General or Special Studies Emphasis, must choose one of the following options:

1. **Master’s Thesis** Before beginning writing the thesis, a student prepares a prospectus conducted by the two thesis readers. The prospectus is a written statement that typically indicates the controlling purpose of the thesis; the selection of literary materials; the relevant scholarship and criticism; and the value and interest of the study.

A candidate who has failed the oral examination may not take it again before the next regular semester. A candidate who failed the examination twice will not be permitted to continue in the program for the M.A. in Literature. Consult The Prospectus and the Thesis handout available in the English Department for more information.

2. **Written and Oral Examination**. Students pursuing this option will be examined on texts in three fields of the discipline based on departmental reading lists and student’s special area of interest. One of the three fields must be pre-1800. A list of the required readings for each historical field is kept on file in the English Department. For each field, students will typically select 20 texts from a list of 30 primary texts, and five texts from a list of 10 works of criticism. The students’ CE exam, then, will typically be based on a total of 60 primary texts and 15 works of criticism.

For each of their three fields, students will submit a five to six-page written assignment. The CE culminates in a 90-minute oral examination. The exam will be conducted by three faculty members who will each examine the student in one of their three chosen fields. To receive Credit for ENG 896, students must pass all three sections of the CE Examination. It is up to each field examiner to determine a passing or failing grade of his or her field. A student who fails one of the three fields of the CE Examination may retake that one exam within the two weeks following the oral examination (if the oral examination is given by the 14th week of instruction; if the exam takes place after the 14th week of instruction, the exam will be conducted the following semester). A student who fails two or more fields of the CE Exam may retake the entire CE Exam for Credit the following semester.

Consult the handout Procedures & Timeline For CE Exam (ENG 896) available in the English Department for more information.

Candidates who have selected the thesis option (ENG 898) as their CE project may NOT switch to the exam option (ENG 896), or vice versa, except upon advisement.

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**Master of Arts in English: Concentration in Teaching English to Speakers of Other Languages**

**Admission to Program**
Applicants must meet all of the SF State Graduate Division’s general admission requirements. Admission to the M.A. TESOL program is based on the evaluation of the following:

- The quality of the applicant’s previous academic record, which must show completion of a B.A./B.S. degree from an accredited four-year college with a GPA (grade point average) of no lower than 3.0 (B) in the last 60 units of undergraduate (and post-baccalaureate) study.
- A statement of purpose which indicates why graduate work in SF State’s M.A. TESOL program is appropriate for the applicant’s current academic interests and future academic and professional goals.

The GRE is not required. Letters of recommendation are also not required but are strongly recommended if the applicant’s academic record is not strong.

Contact the graduate secretary in English for the department application and deadlines, or refer to matesol.sfsu.edu (http://matesol.sfsu.edu) for more details about the application process.

**Prerequisites:** In order to be fully classified, students must meet the conditions below:
Linguistics/Language Studies—If not waived based on previous coursework, students must take the following at SF State: ENG 423, ENG 425 and ENG 426. Students may optionally substitute ENG 421 and ENG 424 for the ENG 423 requirement.

Foreign Language Prerequisite Requirement—One semester’s work (3–5 units) of one foreign language is required, to be taken concurrently with ENG 426. Both native and non-native speakers of English must fulfill this requirement. For non-native speakers of English, the foreign language can be English or another language.

ENG 423, or ENG 421 and ENG 424 may be taken concurrently with ENG 730. ENG 425 and ENG 426 must be completed prior to ENG 730. All linguistics/language studies courses must be taken for a letter grade, and students must have a 3.0 cumulative GPA in these courses and no grade lower than a B– to continue in the program. Literature courses may be taken for a letter grade or credit if the courses selected permit the grading option desired.

Students whose native language is not English and whose B.A. was completed outside the United States must present evidence of a computer-based TOEFL score of at least 240 (Internet-based TOEFL: 95, paper-based TOEFL: 590) with a writing subscore of at least 4.5 (Internet-based writing score of at least 24). As an alternative to TOEFL, scores from the IELTS test are accepted as follows. Students must present evidence of an IELTS (Academic) overall score of 7.0 with at least 6.5 for each component. (The IELTS test is available in two test formats: Academic or General Training. All candidates take the same Listening and Speaking modules. It is the Reading and Writing components that differ. The Academic version of IELTS measures English language proficiency needed for an academic, higher learning environment. This is the format that is required.) Applicants who do not meet this minimum TOEFL requirement will not be admitted; there is no conditional admission. A TOEFL score of 24, or an IELTS score of 7.0, is considered to be very minimal; applicants who demonstrate stronger English proficiency with a higher TOEFL score (and higher writing subscore), or IELTS, will have a better chance of being recommended for admission to the Master of Arts in English with Concentration in TESOL.

In addition, non-native speakers of English and who are required to take the TOEFL, who are admitted, and who enroll, must take the CMS Placement Test (CMSPT) for assessment of their English writing proficiency upon entry to the university. They may be required to take ENG 670 and/or other writing course(s).

Written English Proficiency Requirement

Level One
The Statement of Purpose submitted as part of the application process will be evaluated for proficiency in written English. Students whose writing ability is not satisfactory will be required to take a graduate-level composition course, such as ENG 670. This course may not be used to fulfill other requirements for the M.A.

Level Two
Satisfactory performance in ENG 891.

Teaching Experience
Students who have fewer than two years of ESL/EFL classroom teaching experience are required to get teaching experience before enrolling in ENG 733. This requirement may be fulfilled by

1. enrolling in ENG 726,

2. an internship at the American Language Institute (p. 178), or

3. approval by an advisor of sufficient prior teaching experience.

English (M.A.): Concentration in Teaching English to Speakers of Other Languages — Minimum 30 Units

Foreign Language Requirement
For native speakers of English, one semester’s work (3–5 units), or its equivalent, in a non-Indo-European language is required to complete the Master of Arts in English with Concentration in Teaching English to Speakers of Other Languages. With the approval of an advisor, an Indo-European language which differs considerably from English (e.g., Farsi, Hindi) may be substituted. American Sign Language (ASL) may also be used to fulfill this requirement. For non-native speakers of English, the foreign language requirement is waived. (However, note that the Foreign Language Prerequisite Requirement applies to all.)

Core Courses (18 Units)
The core courses listed below are required of all students graduating from this program.

ENG 721 Advanced Pedagogical Grammar for TESOL 3
ENG 730 Introduction to Graduate Study of TESOL 3
ENG 731 Seminar: TESOL Listening and Speaking Skills 3
ENG 732 Seminar: TESOL Reading and Writing Skills 3
ENG 733 Seminar: Student Teaching for TESOL 3
ENG 734 TESOL Curriculum and Assessment 3

Group Courses (6 Units)
Select one course from Group I: Core and one course from Group II: Linguistics.

Group I: Core
Select one from the following:

ENG 724 Special Topics in Teaching English to Speakers of Other Languages 3
ENG 736 Seminar in Teaching ESL in the Community
ENG 737 Introduction to Corpus Linguistics
ENG 738 Pragmatics and Oral Skills
ENG 832 Seminar in Immigrant Literacies and Community-Based Projects

Group II: Linguistics
Select one from the following:

ENG 719 Seminar: Contemporary Semantic Theory
ENG 723 Seminar in the Structure of English
ENG 725 Seminar in Discourse Analysis
ENG 727 Linguistic Field Methods
ENG 728 Topics in Sociolinguistics
ENG 729 Seminar in Psycholinguistics
ENG 737 Introduction to Corpus Linguistics
ENG 738 Pragmatics and Oral Skills
Elective (3 Units)
Must be upper division (numbered 300 or above) or graduate-level courses relevant to TESOL, language, or teaching, selected with the approval of an advisor.

Culminating Experience (3 Units)
A field study or research project, or a Master's Thesis, must be successfully completed by all candidates for the degree. The field study or research project, which investigates and/or applies knowledge acquired in the student's program of study, must have the recommendation and approval of two faculty field study or research project advisors. All SF State specifications for completion of a field study or research project must be met. Students may take ENG 895 once. Students who fail ENG 895 will receive an Incomplete (I) grade; they may resubmit their project once for a passing grade. If their project fails a second time, they will be recommended for declassification.

During the second-to-last semester in the program, students are required to complete a form called the Advancement to Candidacy (ATC), which lists those courses they are using to fulfill the requirements for the Master of Arts in English with Concentration in TESOL. Students must earn an overall GPA of 3.0 and a B– or better in all courses listed in that document.

ENG 895  Field Study or Applied Research Project  3
or ENG 898  Master's Thesis


**EUROPEAN STUDIES**

**College of Liberal & Creative Arts**
Dean: Andrew Harris

**European Studies Program**
Science Building, Room 267
Phone: (415) 338–2250
Co-Coordinator: Sarah Curtis

Humanities Building, Room 331
Co-Coordinator: Scott Siegel

**Program Scope**
The European Studies minor is a multidisciplinary program in European history, politics, and culture designed to provide undergraduate students with a broad understanding of European ideas and institutions over time. Europe is intrinsically connected to important concepts and historical developments such as revolution, religion, imperialism, capitalism, industrialization, individualism, democracy, communism, human rights, and welfare states. These concepts, formative for Western society, have had global significance as well. Though no longer dominant, Europe today remains a complex, fascinating, and vital region of the world, and one grappling with an array of fundamental political, socioeconomic, and cultural challenges, from enlarging the European Union to determining the future of the welfare state to integrating former colonial subjects into European societies as full citizens.

This minor allows students to engage critically in the examination of Europe past and present through courses in the arts, humanities, and social sciences. It is designed to accommodate a wide range of student interests in particular time periods and specific countries. It is especially recommended for students who wish to study abroad in one of SF State’s exchange programs in Europe and for students considering careers in teaching, the arts, international politics, international business, and the foreign service. In an era of global interdependence, a minor in European Studies demonstrates interest in and knowledge of a region outside of the United States from a multidisciplinary perspective.

**Professors**
Calderón, Christmas, Clavier, Curtis, D’Agostino, Klironomos, Kovacs, Langbehn, Luft, Mann, Millet, Nelsen, Peel, Rodriguez, Tsygankov, Vandergriff, Watts

**Associate Professors**
Concolino, Hackenberg, Hammer, Hood, Khanmohamadi, Le Marchand, Lisy-Wagner, Sowaal, Steier

**Assistant Professors**
Albiero, Linton, Missé, Siegel

**European Studies, Minor — 21–24 Units**
The European Studies Minor consists of a core curriculum of nine to ten units which contain material and perspectives which reach across the normal disciplinary divisions of the university, plus 12 to 14 units of upper division courses taken from the following categories on advisement. A full list of approved electives is available from the European Studies director. The minor must include courses from at least three different disciplines (prefixes) and two colleges.

**Core Courses (9–10 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 111</td>
<td>History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST/I R 346</td>
<td>Recent European History</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>HIST 348</td>
<td>Modern European Intellectual and Cultural History</td>
<td></td>
</tr>
<tr>
<td>HUM 410</td>
<td>The Modern Revolution</td>
<td></td>
</tr>
<tr>
<td>PLSI 353</td>
<td>Political Theory: The Twentieth Century</td>
<td></td>
</tr>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td></td>
</tr>
</tbody>
</table>

**Electives (12–14 Units)**
Under advisement, students are to select one course from Humanities and Literature, one course from Social Sciences, one course from Art History and the Performing Arts, and one course from any of the above areas. These selections may focus on Europe as a civilization (e.g., the formation of Europe, Europe in transition, and contemporary Europe), a section of Europe (e.g., Russia and Eastern Europe, Western Europe, the European community, etc.), or on European artistic and intellectual traditions. Elective courses are listed below.

**Humanities and Literature (3 Units)**
Students may choose from appropriate electives in the following departments:
- Comparative and World Literature
- English
- French
- German
- Humanities
- Italian
- Jewish Studies
- Modern Greek Studies
- Philosophy
- Russian
- Spanish

**Social Sciences (3–4 Units)**
Students may choose from appropriate electives in the following departments:
- History
- International Business
- International Relations
- Jewish Studies
- Political Science

**Art History and the Performing Arts (3 Units)**
Students may choose from appropriate electives in the following departments:
- Art History
- Cinema
- Music
- Theater Arts
Additional Elective (3–4 Units)
Students may choose a fourth elective from any of the three areas (Humanities and Literature, Social Sciences, Art History and the Performing Arts) above.

Foreign Language Requirement
All students completing the European Studies Minor are required to demonstrate intermediate level competency in a language other than English, relevant to the area. This requirement may be met by completing the university entrance requirement of two years of high school language study, one year of successful college level language study, or demonstration of equivalent competency.

Study Abroad
Students completing the European Studies minor are strongly encouraged to participate in study-abroad programs. At the discretion of the European Studies director, courses taken in certified SF State Study-Abroad programs may be substituted for the minor requirements.

Elective Courses

Humans and Literature (3 Units)
- CWL 420: Studies in Comparative Literature (European variants) 3
- CWL 421: Celtic Literature 3
- ENG 501: Age of Chaucer 3
- ENG 510: The Age of Wit 3
- ENG 512: 18th Century British Women Writers 3
- ENG 514: Age of the Romantics 3
- ENG 550: The Rise of the Novel 3
- ENG 552: Modern British Novel 3
- FR 400GW: French Culture - GWAR 3
- FR 410: Contemporary French Civilization 3
- FR 450: Translating Themes: English/French (metropolitan French variants) 3
- FR 500: Introduction to Literary Texts (in French) 3
- FR 525: 17th and 18th Century French Theater (in French) 3
- GER 401: German Culture and Civilization I (in German) 3
- GER 502: Contemporary Germany (in German) 3
- GER 613: Weimar Literature in English (in English) 3
- GER 617: The Holocaust and Postwar Germany Taught in English 3
- HIST 330/ HUM 403: The Early Middle Ages 3
- HUM 404/ HIST 331: The High Middle Ages 3
- HUM 407: Romanticism and Impressionism 3
- HUM 410: The Modern Revolution 3
- HUM 415: Contemporary Culture 3
- HUM/PHIL 432: Nietzsche and Postmodernism 3
- ITAL 401: Italian Culture and Civilization 3
- ITAL 510: Italian Literature: Early Period (in Italian) 3
- ITAL 511: Italian Literature: Late Period (in Italian) 3
- ITAL 525: Literature of the Risorgimento (in Italian) 3
- ITAL 550: The Italian Theater (in Italian) 3
- ITAL 560: The Italian Novel (in Italian) 3
- ITAL 570: Italian Women Writers - 13th to 20th Centuries (in Italian) 3
- ITAL 580: Great Figures in Italian Literature (in Italian) 3
- ITAL 581: Divina Commedia (in Italian) 3
- ITAL 600GW: Italian Literature on Film in English - GWAR 3
- JS/CWL 437: Holocaust and Literature 3
- JS/CWL 480: European Jewish Writers 3
- MGS/CWL/C W 465: Modern Greek Poetry in Comparative Perspective 3
- MGS/C W 497: Modern Greek Literature 3
- MGS 555: Introduction to Modern Greek Literary Texts 3
- PHIL 302: Medieval Philosophy 3
- PHIL 303: Modern Philosophy 3
- PHIL 365: Science and Civilization 3
- RUSS 260: Russian Culture and Civilization in English 3
- RUSS 511: Russian Literature II in English 3
- RUSS 610: Dostoevsky in English Translation 3
- RUSS 613: The Russian Novel: Pushkin, Lermontov, Gogol in English 3
- RUSS 615: The Russian Avant-Garde (in English) 3
- SPAN 401GW: Culture and Civilization of Spain-GWAR 3
- SPAN 562: Cervantes: The Quijote 3
- SPAN 595: Senior Survey in Spanish or Spanish American Literature 3

Social Sciences (3–4 Units)
- HIST/JS 317: The Holocaust and Genocide 3
- HIST 330/ HUM 403: The Early Middle Ages 3
- HIST 334: The Renaissance 3
- HIST 336: The Reformation 3
- HIST 338: Europe and the Wider World, 1348-1768 3
- HIST 342: French Revolution and Napoleon 3
- HIST 344: Nineteenth Century Europe 3
- HIST 347: Women in Modern Europe 3
- HIST 385: The Russian Revolution 3
- HIST 386: Soviet Russia, the West, and the Cold War 3
- HIST 389: European International History: 1848-1918 3
- HIST 390: Era of the World Wars 1918 to 1945 3
- HIST 400: History of Modern European Imperialism 3
- HUM 404/ HIST 331: The High Middle Ages 3
- IBUS 593: Doing Business in Europe 3
- I R 327: Europe: Forming a More Perfect Union 4
- I R/PLSI 328: Domestic and Foreign Policy: Post-Communist Regions 4
- JS/HIST 632: Jewish History I: Beginnings to 1650 3
- JS/HIST 633: Jewish History II: 1650 to Present 3
- MGS/ANTH 316: Contemporary Culture of Greece 3
- MGS/HIST 350: Greece and the Balkans 3
- MGS/CLAS 510/ HIST 326: The Byzantine Empire 3
- PLSI 353: Political Theory: The Twentieth Century 4
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PLSI/I R 407</td>
<td>Politics of Russia</td>
<td>4</td>
</tr>
</tbody>
</table>

**Art History and the Performing Arts (3 Units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Western Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 202</td>
<td>Western Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART/HUM 405</td>
<td>Art, Literature, and Power in the Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ART 406</td>
<td>Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 501</td>
<td>Western Art: Special Areas (European variants)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 401</td>
<td>National/Regional Cinemas (European variants)</td>
<td>3</td>
</tr>
<tr>
<td>CINE 305/JS 405</td>
<td>Film and the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>MUS 550</td>
<td>Music from the Middle Ages to 1750</td>
<td>3</td>
</tr>
<tr>
<td>MUS 551</td>
<td>Classic and Romantic Music</td>
<td>3</td>
</tr>
<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
<td>3</td>
</tr>
</tbody>
</table>
GLOBAL PEACE, HUMAN RIGHTS, AND JUSTICE STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

Global Peace, Human Rights, and Justice Studies Program
Co-Coordinator: Karen Lovas, Communication Studies
Humanities Building, Room 352
Phone: (415) 338–1713

Co-Coordinator: Mahmood Monshipouri, International Relations
Humanities Building, Room 280
Phone: (415) 338–2239

Program Scope
As its title demonstrates, the Global Peace, Human Rights, and Justice Studies Minor is closely aligned with the mission and core values of SF State. We live in a world fraught with warring and ecological devastation and threatened by the frequent failure of governmental and financial powers to fashion just and effective solutions. Yet there are historical and contemporary examples of individuals, groups, and countries working productively and creatively within and across national boundaries to stop violent conflicts, form affirmative alliances, and ensure that basic rights and freedoms are available to all.

Global Peace, Human Rights, and Justice Studies is an all-university, interdisciplinary minor in which students and faculty cooperatively study and explore the problems, issues, challenges, and opportunities to prevent war and to make this a more just, peaceable and sustainable world.

Career Outlook
The Minor in Global Peace, Human Rights, and Justice Studies provides critical thinking collaborative and problem-solving skills relevant to students whatever their major course of study. These are the skills for analyzing and redressing the underlying roots of violence and injustice, including poverty, racism, sexism, heterosexism, cissexism, neoliberalism, imperialism, and environmental degradation. These are the skills that empower people to work more effectively to protect human rights and create systems of social justice.

Centers
The Global Peace, Human Rights, and Justice Studies Program works cooperatively with others in developing internships, sponsoring programs and conferences, and engaging in other educational projects in pursuit of peace and justice.

The Institute for Civic and Community Engagement (ICCE)
ICCE provides opportunities for civic engagement and leadership development at San Francisco State University for students, faculty, and community members. Through innovative courses, experiential learning, political engagement, participatory action research, and direct services, we partner the resources and expertise of the urban university with the knowledge and assets of diverse communities. Working locally, statewide, nationally, and internationally, we cultivate strong leaders who will effectively advocate for social, economic and educational inclusion, and fully participate in the civic life and political processes of their communities.

Public Research Institute
PRI draws upon the expertise of scholars on the SF State campus and in other academic institutions to conduct research in public health, public services and policies, and on strategies for disseminating data and social science methods to neighborhoods and communities.

Meiklejohn Civil Liberties Institute, Berkeley, California
Since 1965 the institute has been providing information on law and history to scholars, activists, and the media; and working for jobs, justice, and peace.

Events
Every year this program organizes an Annual Human Rights Summit. Students are encouraged to participate in this event and may enroll in ANTH 699 or COMM 699, or another internship of their choice, to earn credit for their work, with the consent of the instructor.

Global Peace, Human Rights, and Justice Studies, Minor — 21–26 units

Core Requirements (6–7 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS/IR/PHIL 315</td>
<td>Introduction to Global Peace Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select a second core course with an advisor</td>
<td></td>
<td>3–4</td>
</tr>
</tbody>
</table>

Conflict Resolution (3–4 units)
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR 432</td>
<td>Model United Nations</td>
<td>4</td>
</tr>
<tr>
<td>PSY 547</td>
<td>Social Conflict and Conflict Resolution</td>
<td>3</td>
</tr>
<tr>
<td>COMM 531</td>
<td>Conflict Resolution</td>
<td>4</td>
</tr>
</tbody>
</table>

International Law and Organizations (3–4 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS/PHIL 375</td>
<td>Peace Law and Human Rights in the U.S.</td>
<td>3–4</td>
</tr>
<tr>
<td>or IR 334</td>
<td>International Organizations: New World Order</td>
<td></td>
</tr>
</tbody>
</table>

Philosophies of Peace and Non-Violence (3 units)
Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 366</td>
<td>India’s Gandhi</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 435</td>
<td>Human Rights in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 502</td>
<td>World Religions</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6–8 units)
Select 6–8 units on advisement of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 321</td>
<td>Endangered Cultures</td>
<td>3</td>
</tr>
<tr>
<td>COMM 564</td>
<td>Issues in Free Speech</td>
<td>4</td>
</tr>
<tr>
<td>COMM 573</td>
<td>The Rhetoric of Criminality and Punishment</td>
<td>4</td>
</tr>
<tr>
<td>GPS/PHIL 375</td>
<td>Peace Law and Human Rights in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST/JS 317</td>
<td>The Holocaust and Genocide</td>
<td>3</td>
</tr>
<tr>
<td>HIST 428</td>
<td>History of the United States Since 1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 464</td>
<td>American Ethnic and Racial Relations to 1890</td>
<td>3</td>
</tr>
<tr>
<td>HIST 465</td>
<td>American Ethnic and Racial Relations II: 1890 - Present</td>
<td>3</td>
</tr>
<tr>
<td>HUM 366</td>
<td>India’s Gandhi (if not taken in the core)</td>
<td>3</td>
</tr>
<tr>
<td>Course Number</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>IR 330</td>
<td>World Law</td>
<td>4</td>
</tr>
<tr>
<td>IR 334</td>
<td>International Organizations: New World Order (if not taken in the core)</td>
<td>4</td>
</tr>
<tr>
<td>IR 432</td>
<td>Model United Nations</td>
<td>4</td>
</tr>
<tr>
<td>IR/PLSI 544</td>
<td>Women in the World</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 435</td>
<td>Human Rights in Global Perspective (if not taken in the core)</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 552</td>
<td>Individual Rights and the Constitution</td>
<td>4</td>
</tr>
<tr>
<td>PSY 547</td>
<td>Social Conflict and Conflict Resolution</td>
<td>3</td>
</tr>
<tr>
<td>SDC 461/USP 515/GEOG 667</td>
<td>Ethnic Relations: International Comparisons</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 699</td>
<td>Independent Study (maximum of 3 units total)</td>
<td>3</td>
</tr>
<tr>
<td>or COMM 699</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

The following electives are available for field study or internship, on advisement:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR 640</td>
<td>Field Study in International Relations</td>
<td>1-5</td>
</tr>
<tr>
<td>PHIL 680</td>
<td>Field Project in Philosophy</td>
<td>1-3</td>
</tr>
<tr>
<td>WGS 698</td>
<td>Work Study in Feminist Projects</td>
<td>1-3</td>
</tr>
</tbody>
</table>
HISTORY

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of History
Science Building, Room 276
Phone: (415) 338–1604
E-mail: history@sfsu.edu

Chair: Trevor Getz
Graduate Coordinators: Sarah Curtis and Jessica Elkind

Program Scope
History is the study of change in human societies over time. Undergraduates majoring in history may select advanced courses focusing upon the entire range of life within a nation or region during a given time period, or courses dealing with some specialized aspect of life (social history, economic history, etc.), or courses which explore the concepts and methodology of historical research and analysis.

The Master of Arts in History is offered with specialties in the United States, World History, Europe and the Mediterranean before C.E. 1500, Europe after C.E. 1500, Early Modern Europe, and Gender in History. The M.A. is designed to accommodate students’ interests and needs as they pursue a course of study under the direction of a committee of faculty members. Together with their committee, students plan a program to give both depth and breadth to their understanding of the past. The faculty is familiar with and sensitive to the needs of students who must work, part-time or full-time, while pursuing their graduate program. San Francisco and the Bay Area contain many libraries, archival repositories, and historical agencies where students can do research or obtain on-site experience through an internship.

Career Outlook
The history program provides training for those interested in a teaching credential, for those preparing to do graduate work in several fields. The critical thinking and writing skills developed through the study of History at SF State are applicable to any area of employment. Our majors also find work outside of the classroom in marketing, politics, law, archival work, and project management.

Single Subject Teaching Credential: History/Social Science
Students who are considering teaching in the secondary schools should see a departmental credential program advisor before planning their program.

Professors
Curtis, D’Agostino, Getz, Hsu, Kudlick, Ofate, Rodriguez, Stein, Wolf

Associate Professors
Behrooz, Chekuri, Dreyfus, Elkind, Lisy-Wagner, Mabalon, Postel, Williams

Assistant Professors
Campbell, Crabtree, Viator

Lecturers
Arrieta, Corea, Germany, Katz, Leikin, Livie, Pafford, Sigmon

Majors
• Bachelor of Arts in History (p. 818)
• Bachelor of Arts in History: Honors Concentration (p. 825)

Minors
• Minor in History (p. 832)

Masters
• Master of Arts in History (p. 832)

Bachelor of Arts in History
A list of faculty advisors is available at the department office, Science Building, Room 276.

History (B.A.) – 39 units
Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 110</td>
<td>History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 114</td>
<td>World History to 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 111</td>
<td>History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 115</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Fields of Study (24 units)

Option I:
Students should complete 12 upper division units in one field of study and six upper division units in each of two other fields of study. U.S. History must be one of the three fields.

• U.S. History

• Choose two fields from among the following: Africa, Asia (may include the Middle East), Europe (either Europe before 1500 or Europe since 1500), or Latin America.

Option II:
Students may complete six units in each of the three fields of study, distributed geographically as above, and six elective units, so long as a minimum of 12 units fall under a theme approved on departmental advisement such as Empire and Imperialism; Gender, Sexuality and the Body; Religion and Society; or the Pre-modern World (applicable courses are listed in the department’s Undergraduate Advising Booklet).

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

All history majors must include at least one proseminar (HIST 640, HIST 642, or HIST 644). This seminar should be taken after HIST 300GW and should preferably be in the primary field, although it may be in any field of emphasis. Twenty-seven of the 39 units required for the major
must be upper division. History majors cannot choose CR/NC grading in more than two history courses for their major, nor elect CR/NC grading in HIST 300GW or their seminar. With the consent of their advisor, students may offer up to six units from other departments to count toward their history major.

**Complementary Studies**

All candidates for the Bachelor of Arts in History are required to complete 12 units of complementary studies. The History department will accept complementary studies in any of four distinct paths outlined below from courses with a prefix other than HIST, and not cross-listed with HIST. These units can be earned in residence at San Francisco State, in a Study Abroad Program, or transferred.

1. Within an established minor students will satisfy complementary studies by completing 12 units from a single minor. Of these 12 units, a maximum of 6 units may be lower division.
2. Foreign Language Students must complete 12 units in a single foreign language.
3. Study Abroad Students must successfully pass 12 units with any prefix on a CSU or SF State supported study abroad program.
4. Flexibility Option Students, in consultation with an advisor, may choose 12 upper division units in courses with a prefix other than HIST, and not cross-listed with HIST.

Students who have earned AA–T or AS–T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
</tbody>
</table>

Lifelong Learning LD or UD and Self-Development (LLD)

| Physical and/or Life Science | UD | 3 | UD-B |
| Arts and/or Humanities       | UD | 3 | UD-C |
| Social Sciences              | UD | 3 | UD-D |

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES)           | LD or UD | 3 |
| Global Perspectives (GP)                    | LD or UD | 3 |
| Social Justice (SJ)                         | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

**First Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 821)

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in History. This roadmap opens in a new tab. (p. 823)

**This degree program is an approved pathway (“similar” major) for students earning the ADT in History**

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.
Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken.

Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
  e. The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Arts in History Roadmap

120 Total Units Required  
Minimum number of units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 110</td>
<td>History of Western Civilization I or World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 114</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>HIST 111</td>
<td>History of Western Civilization II or World History Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three ⁴</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Field of Study (24 Units Total) – Take Two ⁵</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
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<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
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<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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</tr>
<tr>
<td>Major Field of Study (24 Units Total) – Take Two ⁵</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Field of Study (24 Units Total) – Take Two ⁵</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

---

¹ A3 may also include Critical Thinking (A3) or Cultural Competence (A4).

² A2 may also include Communication (A2) or Oral Communication (A3).

³ B3 may also include Physical Science (B1) or Laboratory Science (B3).

⁴ The B3 course must be taken in addition to the required major courses.

⁵ The total number of units for the major must be 39.
Eighth Semester

Select One:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 640</td>
<td>Proseminar: European History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 642</td>
<td>Proseminar: American History</td>
<td></td>
</tr>
<tr>
<td>HIST 644</td>
<td>Proseminar in World History</td>
<td></td>
</tr>
</tbody>
</table>

Major Field of Study (24 Units Total) – Take Two  

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units 120-122

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114 if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class with a combined laboratory or a separate lab to fulfill B3 if not already satisfied.

4. Complementary Studies

   All candidates for the Bachelor of Arts in History are required to complete 12 units of complementary studies. The History department will accept complementary studies in any of four distinct paths outlined below from courses with a prefix other than HIST, and not cross-listed with HIST. These units can be earned in residence at San Francisco State, in a Study Abroad Program, or transferred.

   1. Within an established minor students will satisfy complementary studies by completing 12 units from a single minor. Of these 12 units, a maximum of 6 units may be lower division.

   2. Foreign Language Students must complete 12 units in a single foreign language.

   3. Study Abroad Students must successfully pass 12 units with any prefix on a CSU or SF State supported study abroad program.

   4. Flexibility Option Students, in consultation with an advisor, may choose 12 upper division units in courses with a prefix other than HIST, and not cross-listed with HIST.

5. Fields of Study (24 units)

   Option I:

   Students should complete 12 upper division units in one field of study and 6 upper division units in each of two other fields of study. U.S. History must be one of the three fields.

   - U.S. History
   - Choose two fields from among the following: Africa, Asia (may include the Middle East), Europe (either Europe before 1500 or Europe since 1500), or Latin America.

   Option II:

   Students may complete 6 units in each of the three fields of study, distributed geographically as above, and 6 elective units, so long as a minimum of 12 units fall under a theme approved on departmental advisement such as Empire and Imperialism; Gender, Sexuality and the Body; Religion and Society; or the Pre-modern World (applicable courses are listed in the department’s Undergraduate Advising Booklet).

   HIST 640, HIST 642, HIST 644 serve as the culminating experience course for the major.
# Bachelor of Arts in History – HIST Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in History. Twelve units in the major (HIST 110/HIST 111 or HIST 114/HIST 115, HIST 120, HIST 121) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Field of Study</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Field of Study – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Field of Study – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 640</td>
<td>Proseminar: European History</td>
<td></td>
</tr>
<tr>
<td>HIST 642</td>
<td>Proseminar: American History</td>
<td></td>
</tr>
<tr>
<td>HIST 644</td>
<td>Proseminar in World History</td>
<td></td>
</tr>
<tr>
<td>Major Field of Study</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

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1. ENG 214 or equivalent is a prerequisite to all upper division major courses. If not completed in transfer, in the first semester students must take ENG 214, as well as US Government, upper division GE, or University Electives. All major courses will be taken in a later semester.

---

### To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–15 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–3 units): US Government, California State and Local Government requirements if not taken before transfer. US History met in ADT.
- Upper division GE, areas B, C and D (9 units): HIST courses approved for UD GE areas C and D might double-count for Major requirements.
- Students entering this major with the AA-T in History are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.
History Major: 27 Units
HIST 110-HIST 111 or HIST 114-HIST 115, HIST 120, HIST 121 met in transfer.

- Major Required Courses (3 units): HIST 300GW
- Fields of Study (24 units): Students have two options to complete this requirement.
  - Option I – Take 12 upper division units in one world region and six units in each of two other world regions. One of the three regions must be the U.S. The other two can be chosen from Africa, Asia (may include Middle East), Europe (either pre-1500 or post-1500) or Latin America.
  - Option II – Take six units in each of three world regions, as above, in consultation with a department advisor to create a thematic focus.

Note: all history majors must include at least one proseminar (HIST 640, HIST 642, or HIST 644). This seminar cannot be taken before HIST 300GW; may be in any one of the three selected world regions, and is included in the unit-count for that field.

University Electives: 18 or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Bachelor of Arts in History: Honors Concentration

History (BA): Honors Concentration

Language Proficiency
To graduate from the history honors program, a student must demonstrate proficiency in a foreign language at a level comparable to that of students who have successfully completed one year of college courses. This level of proficiency is to be demonstrated as follows:

- Two semester-length courses in college-level language with a grade of B or better, or
- Equivalent proficiency in a foreign language based on successful completion of an examination to be administered by the Foreign Languages Department.

Grade Performance Requirement
Students are expected to maintain a minimum grade of B in each course to meet the honors major requirements, and a grade point average of 3.25 in all courses taken to complete the honors program. Additionally, students will be required to have an overall grade point average of 3.25 in all university-level courses taken to fulfill the university requirements for the honors degree. Students failing to do so, but who meet the requirements for the B.A. in History, will graduate with the B.A. in History, but not with the Honor's Concentration.

Prerequisites
For a student to be eligible for admission to the Honors Program, the following requirements must be met:

- An overall GPA of 3.25 in courses at the college level. An overall GPA of 3.25 in history courses taken.
- Students must successfully complete the following courses with a grade of B or better prior to being admitted. The courses listed below are SF State courses. Equivalent courses at other institutions are also acceptable.

History (B.A.): Honors Concentration – 45 units

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 110</td>
<td>History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 114</td>
<td>World History to 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 111</td>
<td>History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 115</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Fields of Study (24 units)

Option I:
Students should complete 12 upper division units in one field of study and six upper division units in each of two other fields of study. U.S. History must be one of the three fields.

- U.S. History
- Choose two fields from among the following: Africa, Asia (may include the Middle East), Europe (either Europe before 1500 or Europe since 1500), or Latin America.

Option II:
Students may complete six units in each of the three fields of study, distributed geographically as above, and six elective units, so long as a minimum of 12 units fall under a theme approved on departmental advisement such as Empire and Imperialism; Gender, Sexuality and the Body; Religion and Society; or the Pre-modern World (applicable courses are listed in the department’s Undergraduate Advising Booklet).

Proseminar and Honor's Thesis (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 640</td>
<td>Proseminar: European History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 642</td>
<td>Proseminar: American History</td>
<td></td>
</tr>
<tr>
<td>or HIST 644</td>
<td>Proseminar in World History</td>
<td></td>
</tr>
<tr>
<td>HIST 697</td>
<td>Honors Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

The proseminar will be taken after HIST 300GW, normally in the major field. The honors thesis will be taken after the proseminar and will normally represent an extension of the work in that proseminar, to be supervised by the proseminar instructor. For exceptions, consult the honors advisor.

Of the 45 required units, 33 must be upper division. History majors cannot choose CR/NC grading in more than two history courses for their major, and cannot elect CR/NC grading in HIST 300GW or their proseminar. With the consent of the honors advisor, students may offer up to 6 units from other departments to count toward honors concentration requirements.

Complementary Studies
All candidates for the Bachelor of Arts in History are required to complete 12 units of complementary studies. The History department will accept complementary studies in any of four distinct paths outlined below from courses with a prefix other than HIST, and not cross-listed with HIST. These units can be earned in residence at San Francisco State, in a Study Abroad Program, or transferred.

1. Within an established minor students will satisfy complementary studies by completing 12 units from a single minor. Of these 12 units, a maximum of 6 units may be lower division.
2. Foreign Language Students must complete 12 units in a single foreign language.
3. Study Abroad Students must successfully pass 12 units with any prefix on a CSU or SF State supported study abroad program.
4. Flexibility Option Students, in consultation with an advisor, may choose 12 upper division units in courses with a prefix other than HIST, and not cross-listed with HIST.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
This degree program is an approved pathway ("similar" major) for students earning the ADT in History

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential. A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower-division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

### First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 828)

### Transfer Student Roadmap (2 Year)

For students with an AA-T in History. This roadmap opens in a new tab. (p. 830)
• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**All students must meet the transfer eligibility requirements outlined below for admission.**
**For more information, visit the Undergraduate Admissions section.**

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
## Bachelor of Arts in History: Honors Concentration Roadmap

120 Total Units Required  
Minimum number of units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 110</td>
<td>History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 114</td>
<td>World History to 1500</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 111</td>
<td>History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 115</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. and California Government (D3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Field of Study (24 Units Total) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Field of Study (24 Units Total) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 660</td>
<td>Computer Methodology for Historians</td>
<td>3</td>
</tr>
<tr>
<td>Major Field of Study (24 Units Total) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EIGHTH SEMESTER</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Select One:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 640</td>
<td>Proseminar: European History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 642</td>
<td>Proseminar: American History</td>
<td></td>
</tr>
<tr>
<td>HIST 644</td>
<td>Proseminar in World History</td>
<td></td>
</tr>
<tr>
<td>HIST 697</td>
<td>Honors Thesis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Field of Study (24 Units Total) – Take Two</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies**
   All candidates for the Bachelor of Arts in History are required to complete 12 units of complementary studies. The History department will accept complementary studies in any of four distinct paths outlined below from courses with a prefix other than HIST, and not cross-listed with HIST. These units can be earned in residence at San Francisco State, in a Study Abroad Program, or transferred.
   1. Within an established minor students will satisfy complementary studies by completing 12 units from a single minor. Of these 12 units, a maximum of 6 units may be lower division.
   2. Foreign Language Students must complete 12 units in a single foreign language.
   3. Study Abroad Students must successfully pass 12 units with any prefix on a CSU or SF State supported study abroad program.
   4. Flexibility Option Students, in consultation with an advisor, may choose 12 upper division units in courses with a prefix other than HIST, and not cross-listed with HIST.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

5. **Fields of Study (24 units)**
   **Option I:**
   Students should complete 12 upper division units in one field of study and 6 upper division units in each of two other fields of study. U.S. History must be one of the three fields.
   - U.S. History
   - Choose two fields from among the following: Africa, Asia (may include the Middle East), Europe (either Europe before 1500 or Europe since 1500), or Latin America.

   **Option II:**
   Students may complete 6 units in each of the three fields of study, distributed geographically as above, and 6 elective units, so long as a minimum of 12 units fall under a theme approved on departmental advisement such as Empire and Imperialism; Gender, Sexuality and the Body; Religion and Society; or the Pre-modern World (applicable courses are listed in the department’s Undergraduate Advising Booklet).

   HIST 640, HIST 642, HIST 644, HIST 697 serve as the culminating experience course for the major.
Bachelor of Arts in History: Honors Concentration – HIST Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in History. Twelve units in the major (HIST 110/HIST 111 or HIST 114/HIST 115, HIST 120, HIST 121) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Field of Study</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Foreign Language Proficiency Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if the requirement is already satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if requirement met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Field of Study – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Foreign Language Proficiency Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if the requirement has already been satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 640</td>
<td>Proseminar: European History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 642</td>
<td>Proseminar: American History</td>
<td></td>
</tr>
<tr>
<td>or HIST 644</td>
<td>Proseminar in World History</td>
<td></td>
</tr>
<tr>
<td>Major Field of Study – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 697</td>
<td>Honors Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Major Field of Study – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1 ENG 214 or equivalent is a prerequisite to all upper division major courses. If not completed in transfer, in the first semester students must take ENG 214, as well as US Government, upper division GE, or University Electives. All major courses will be taken in a later semester.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–15 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–3 units): US Government, California State and Local Government requirements if not taken before transfer. US History met in ADT.
- Upper division GE, areas B, C and D (9 units): HIST courses approved for UD GE areas C and D might double-count for Major requirements.
- Students entering this major with the AA-T in History are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**History Major: 33 Units**

HIST 110-HIST 111 or HIST 114-HIST 115, HIST 120, HIST 121 met in transfer.

• Major Required courses (3 units): HIST 300GW
• Fields of Study (24 units): Students have two options to complete this requirement.

  - Option I – Take 12 upper division units in one world region and six units in each of two other world regions. One of the three regions must be the U.S. The other two can be chosen from Africa, Asia (may include Middle East), Europe (either pre-1500 or post-1500) or Latin America.
  - Option II – Take six units in each of three world regions, as above, in consultation with a department advisor to create a thematic focus.

  - Proseminar (3 units): Take after HIST 300GW.
  - Honors thesis (3 units): Take after the proseminar; normally represents an extension of the work in the proseminar.
  - Language Proficiency: two semester-length courses in college-level language or equivalent proficiency based on exam administered in Modern Languages and Literatures Department. Advanced Placement may be used depending on score – check Bulletin.
  - Students in this major must earn a minimum grade of B in each course, and attain an overall GPA of 3.25.

**University Electives: Six or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Minor in History

History minors cannot choose CR/NC grading in more than one course in their minor, nor elect CR/NC grading in HIST 300GW.

History Minor – 24 units

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 110</td>
<td>History of Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 114</td>
<td>World History to 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 111</td>
<td>History of Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 115</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 120</td>
<td>History of the U.S. through Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 121</td>
<td>History of the U.S. since Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>HIST 300GW</td>
<td>Seminar in Historical Analysis - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 units)

Upper division electives in history on advisement.

Master of Arts in History

Graduate Advisors: Curtis, Elkind

Admission to Program

A prospective student must fulfill the general University requirements as stated in the section on Graduate and Post-Baccalaureate Admissions (p. 115) of this Bulletin. To be considered for classified admission to the Master of Arts in History program, a student must have completed an undergraduate major in history with a minimum grade point average of 3.5. Applicants whose GPA in history falls between 3.35 and 3.5 can be considered for admission on a conditional basis. Students whose undergraduate major was not history should consult the graduate coordinator about making up course deficiencies in history. The usual pattern is for the student to complete the equivalent of a B.A. in history before being accepted as a classified student in the graduate program of the department.

If the student’s undergraduate record, writing sample, letters of recommendation, and GRE scores meet the basic requirements and give promise of a successful pursuit of graduate work, the department will recommend that the student be admitted either to classified graduate standing (which means that the student may immediately proceed to take graduate courses and seminars) or conditional standing, specifying the conditions and time limit within which they must be met.

Written English Proficiency Requirement

Level One (Preadmission)

Assessment of the writing sample based on graduate-level rubrics; completion of writing component of GRE with a score of 4.0 or better.

Level Two

Satisfactorily completing the writing requirements in HIST 700.

Advancement to Candidacy

Besides meeting all general requirements for advancement to candidacy, applicants must maintain a 3.0 grade-point average in all history courses taken for the master of arts, and may not list on the Advancement to Candidacy any course in which the grade received is below B–.

History (M.A.) – Minimum 30 Units

All students are required to take HIST 700 and HIST 705, preferably within the first year, for a total of six units.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 700</td>
<td>History as a Field of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>HIST 705</td>
<td>Approaches to History</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (21 units)

Students are required to take four additional graduate seminars (12 units) distributed as follows:

- At least one reading seminar
- At least one research seminar
- At least one seminar covering topics before 1800
- At least one seminar covering topics after 1800
- Seminars must cover at least two geographical fields selected among Latin America, Asia, Africa, the Middle East, Europe, and the US

The additional nine units (three courses) may be drawn from upper division courses, proseminars, or graduate seminars. Under advisement, students are encouraged to design a program that best meets their academic and career goals.

Seminars (HIST 701–HIST 850) may be offered as reading or research variants Students should regularly consult with their advisor to determine which seminars are being offered.

Students may count a single course for both chronological and geographical distribution.

Students may substitute HIST 899 Independent Study for one of these requirements.

Students may substitute HIST 785 College Teaching of History for one graduate seminar.

Courses may be repeated for credit provided the topic is not repeated.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 701</td>
<td>The Historiography of World History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 702</td>
<td>Sexuality in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 710</td>
<td>Seminar in Ancient and Medieval History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 720</td>
<td>Seminar in Medieval History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 730</td>
<td>Seminar in Early Modern European History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 780</td>
<td>Seminar in American History To 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 785</td>
<td>College Teaching of History</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 790</td>
<td>Seminar in American History Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 805</td>
<td>Seminar in the History of Women</td>
<td>3</td>
</tr>
<tr>
<td>HIST 850</td>
<td>Topics in World History Since 1500</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience Requirement (3 units)

Select on advisement one of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 896</td>
<td>Directed Reading in History (and HIST 896EXM)</td>
<td></td>
</tr>
<tr>
<td>HIST 898</td>
<td>Master’s Written Comprehensive Examination in student’s primary emphasis</td>
<td></td>
</tr>
</tbody>
</table>

Auxiliary Skills

Candidates for the master’s degree are expected to present an auxiliary skill to aid them in their historical study. In almost all cases, this would
be a reading knowledge of one foreign language; but, upon advisement, a candidate may design a two-semester course of study in another skill that is relevant to his or her research. Information about specific requirements may be obtained from the graduate coordinator.

**Thesis Option**
While the usual culminating requirement consists of HIST 896 and the written comprehensive examination (HIST 896EXM, under certain conditions a student may be given permission to do a thesis (HIST 898, Master’s Thesis) and an oral defense of the thesis in his/her major field. Students considering the thesis option should contact the department chair or graduate coordinator for further details.
HUMANITIES

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Humanities & Liberal Studies
Humanities Building, Room 410
Phone: (415) 338–1830

Chair: Cristina Ruotolo
Graduate Coordinator: Mary Scott

Program Scope
The program offers students understanding of cultural experience through interdisciplinary study of the humanities. Undergraduate and graduate students study creative practices, cultural values, and insights of diverse human communities, past and present. Humanities majors explore methods of bringing the various humanities, such as literature, music, visual forms, and architecture, into an integrative view of the world's cultural diversity.

With this integrative approach to American and world cultures, the humanities major provides an excellent foundation for jobs in government, business, law, education, and the arts. Practical training in a specific professional field (TESOL, journalism, museum work, etc.) may well be taken in conjunction with the major or the minor in humanities. The Bachelor of Arts in Humanities program is also good preparation for entering a K–12 single subject or multiple subject teaching credential programs. Those earning the M.A. are qualified to search for a position at a community college.

For the B.A. in Humanities, students must complete a core of five courses (including a senior seminar) in basic methods of understanding culture through the humanities, and then choose combinations of courses in European, American, Asian and Middle Eastern/African, and Cross-Cultural Studies. Up to three appropriate courses in related departments such as ethnics studies, English, comparative and world literature, philosophy, art, and music may be included in the major with an advisor's approval.

Students minoring in humanities must complete three core courses and four additional courses in one or more of the culture-study areas, depending upon the emphasis desired.

The M.A. in Humanities is an interdisciplinary program that emphasizes the integrative study of culture, ideas, and the arts, with special concern for the questions of value—moral, intellectual, cultural, and aesthetic—that are inherent in major human expressions. It serves a variety of personal and career objectives, including preparation for and enrichment of K–12 and community college level teaching and preparation for advanced study in a range of disciplinary and interdisciplinary degree programs in the humanities.

Professors
Leonard, Luft, Ruotolo, Scott

Associate Professors
Augsburg, Bertram, Garcia-Moreno, Steier

Assistant Professor
Sousanis

Majors
• Bachelor of Arts in Humanities (p. 834)

Minors
• Minor in Humanities (p. 843)

Masters
• Master of Arts in Humanities (p. 843)

Bachelor of Arts in Humanities
The department's lower division General Education courses (HUM 130, HUM 220, HUM 225) or other lower division courses concerned with ideas, social conditions, and art forms are recommended for students planning to major or minor in humanities. HUM 130 or HUM 220 may be counted toward the major as an elective in Cross-Cultural studies. Study or practical experience toward mastery of a foreign language is strongly recommended along with the major or minor.

Humanities majors who successfully complete HUM 300GW in spring 2010 or thereafter will have satisfied the University Graduation Writing Assessment Requirement (GWAR).

Humanities (B.A.) – 42 Units
Core (15 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 300GW</td>
<td>Junior Seminar Humanities Writing - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 301</td>
<td>Form and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 303</td>
<td>History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 425</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 690</td>
<td>Senior Seminar in the Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Cross-cultural Studies (6 Units)
Units selected from the following or other appropriate courses on advisement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 130</td>
<td>The Humanities: Major Works</td>
<td>3</td>
</tr>
<tr>
<td>HUM 302</td>
<td>Theories and Methods in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 320/</td>
<td>Music, Ideas, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>MUS 446</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 345</td>
<td>Humanism and Mysticism</td>
<td>3</td>
</tr>
<tr>
<td>HUM 360</td>
<td>Styles of African Cultural Expression</td>
<td>3</td>
</tr>
<tr>
<td>HUM 361</td>
<td>Cultural Expression in Islam</td>
<td>3</td>
</tr>
<tr>
<td>HUM 375</td>
<td>Biography of a City (Istanbul, Cairo, Cape Town)</td>
<td>3</td>
</tr>
<tr>
<td>HUM/JS 377</td>
<td>Jerusalem</td>
<td>3</td>
</tr>
<tr>
<td>HUM 390</td>
<td>Images of Eroticism</td>
<td>3</td>
</tr>
<tr>
<td>HUM 415</td>
<td>Contemporary Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 496</td>
<td>Islam and the Poetics of Space</td>
<td>3</td>
</tr>
<tr>
<td>HUM/JS/PHIL 501</td>
<td>Judaism, Christianity, and Islam</td>
<td>3</td>
</tr>
<tr>
<td>HUM 510</td>
<td>Comparative Form and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>
**European Culture Studies (6 units)**
Units selected from the following or other appropriate courses on advisement:

- **HUM 302** Theories and Methods in the Humanities 3
- **HUM 375** Biography of a City (Berlin, Florence, London, Moscow, Paris, Rome, St. Petersburg, Vienna, Naples) 3
- **HUM/MGS 378** Athens 3
- **HUM 401/CLAS 410** Ancient Greek Literature 3
- **HUM 402/CLAS 415** Ancient Roman Literature 3
- **HUM 403/HIST 330** The Early Middle Ages 3
- **HUM 404/HIST 331** The High Middle Ages 3
- **HUM/ART 405** Art, Literature, and Power in the Renaissance 3
- **HUM 407** Romanticism and Impressionism 3
- **HUM 410** The Modern Revolution 3
- **HUM/PHIL 432** Nietzsche and Postmodernism 3
- **HUM 434/JS 414/PHIL 434** Arendt and Heidegger 3
- **HUM 550** The Art of Autobiography 3

**American Culture Studies (6 Units)**
Units selected from the following or other appropriate courses on advisement:

- **HUM 321/MUS 507/TH A 507** Jazz and Blues in Film 3
- **HUM 375** Biography of a City (Los Angeles, Mexico City, New Orleans, New York, Rio de Janeiro, Havana, Chicago, Boston, Buenos Aires) 3
- **HUM 376** San Francisco 3
- **HUM 450/AMST 410** California Culture 3
- **HUM 455** Humanities of the Americas (San Francisco) 3
- **HUM 470** American Autobiography 3
- **HUM/HIST 480** Thought and Culture in America to 1880 3
- **HUM/HIST 481** Thought and Culture in America: 1880 to the Present 3
- **HUM 485/AMST 310** The Arts and American Culture 3
- **HUM 490** American Images: Photography and Literature 3
- **HUM/LTNS 520** North and South American Cultural Expression 3

**Asian Culture Studies (6 Units)**
Units selected from the following or other appropriate courses on advisement:

- **HUM 366** India's Gandhi 3
- **HUM 375** Biography of a City (Beijing, Tokyo, Delhi, Shanghai) 3
- **HUM/ART 507** Art of China 3
- **HUM 526** Culture of Japan before 1850 3
- **HUM 527** Japan and Modernity 3
- **HUM 530** Chinese Civilization 3
- **HUM 531** Images of Modern China 3
- **HUM 522/CWL 432** From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts 3
- **HUM 535** Classical South Asian Cultural Forms 3
- **HUM 536** Modern South Asian Cultural Forms 3

**Additional Courses (3 Units)**
Units selected from one of the above culture study areas, or other appropriate courses on advisement

**Note:** Up to three appropriate courses (9 units) in related departments or programs may be substituted for departmental course work in the culture-study areas. Core courses must be taken for a letter grade. No more than one elective course (3 units) may be taken CR/NC. Up to three units lower division coursework can be counted as an elective in the major.

**Complementary Studies**
Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Humanities. These units must come from courses bearing a prefix other than HUM and not cross-listed with HUM. Humanities majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Humanities majors may, with the approval of a Humanities department advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as partial completion of a second major, a minor or a certificate, or courses in a related discipline. Related disciplines typically include: African American Studies, American Indian Studies, American Studies, Anthropology, Art, Asian American Studies, Broadcast and Electronic Communication, Cinema, Classics, Comparative World Literature, Creative Writing, English, Foreign Languages, History, International Relations, Jewish Studies, Journalism, Liberal Studies, Middle East and Islamic Studies, Modern Greek Studies, Music, Philosophy, Political Science, Race and Resistance Studies, Theatre Arts, and Women and Gender Studies.

These courses should either have a direct bearing on the study of the humanities, or they should be shown to deepen and enrich the study of humanities in particular and articulate ways. Up to nine units of Complementary Studies can count toward the major, leaving three other units to be met by another course in consultation with an advisor in the department. Advisors may use a slightly higher standard for complementary for the nine units that count for the Major than for the three units that do not.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
</tbody>
</table>
Lab Science  LD  1  B3
Mathematics/ Quantitative Reasoning  LD  3  B4
Arts  LD  3  C1
Arts or Humanities  LD  3  C1 or C2
Humanities: Literature  LD  3  C3
Social Sciences  LD  3  D1
Social Sciences: US History  LD  3  D2
Social Sciences: US & CA Government  LD  3  D3
Lifelong Learning and Self-Development (LLD)  LD or UD  3  E
Physical and/or Life Science  UD  3  UD-B
Arts and/or Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

Transfer Student Roadmap (2 Year)
For students with an AA-T in Art History. This roadmap opens in a new tab. (p. 841)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Art History
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

• How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).
Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Humanities Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 42

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>3</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
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<td>9</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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<tr>
<td>HUM 300GW</td>
<td>Junior Seminar Humanities Writing - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 301</td>
<td>Form and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 303</td>
<td>History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Cross Cultural Studies (6 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
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<tr>
<td>HUM 425</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>European Culture Studies (6 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Culture Studies (6 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross Cultural Studies (6 units)</td>
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<td>3</td>
</tr>
<tr>
<td>European Culture Studies (6 units)</td>
<td></td>
<td>3</td>
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</tbody>
</table>
American Culture Studies (6 units)  
GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)  
Complementary Studies or SF State Studies or University Elective  

<table>
<thead>
<tr>
<th>Eighth Semester</th>
<th></th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 690</td>
<td>Senior Seminar in the Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>
| Asian Culture Studies (6 units) – Take Two  
Additional Course from One of the Above Culture Study Areas or Other Appropriate Courses on Advisement  
Complementary Studies or SF State Studies or University Elective |               | 6     |

Total Units: 15

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3 Complementary Studies  
Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Humanities. These units must come from courses bearing a prefix other than HUM and not cross-listed with HUM. Humanities majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Humanities majors may, with the approval of a Humanities department advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as partial completion of a second major, a minor or a certificate, or courses in a related discipline. Related disciplines typically include: African American Studies, American Indian Studies, American Studies, Anthropology, Art, Asian American Studies, Broadcast and Electronic Communication, Cinema, Classics, Comparative World Literature, Creative Writing, English, Foreign Languages, History, International Relations, Jewish Studies, Journalism, Liberal Studies, Middle East and Islamic Studies, Modern Greek Studies, Music, Philosophy, Political Science, Race and Resistance Studies, Theatre Arts, and Women and Gender Studies. These courses should either have a direct bearing on the study of the humanities, or they should be shown to deepen and enrich the study of humanities in particular and articulable ways. Up to nine units of Complementary Studies can count toward the major, leaving three other units to be met by another course in consultation with an advisor in the department. Advisors may use a slightly higher standard for complementary for the nine units that count for the Major than for the three units that do not.
4 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
5 Cross Cultural Studies  
HUM 130 The Humanities: Major Works (3 units)  
HUM 302 Theories and Methods in the Humanities (3 units)  
HUM 320 Music, Ideas, and Culture (3 units)  
HUM 345 Humanism and Mysticism (3 units)  
HUM 360 Styles of African Cultural Expression (3 units)  
HUM 361 Cultural Expression in Islam (3 units)  
HUM 375 Biography of a City (3 units)  
HUM 377 Jerusalem (3 units)  
HUM 390 Images of Eroticism (3 units)  
HUM 415 Contemporary Culture (3 units)  
HUM 496 Islam and the Poetics of Space (3 units)  
HUM 501 Judaism, Christianity, and Islam (3 units)  
HUM 510 Comparative Form and Culture (3 units)
European Culture Studies
HUM 302 Theories and Methods in the Humanities (3 units)
HUM 375 Biography of a City (3 units)
HUM 378 Athens (3 units)
HUM 401 Ancient Greek Literature (3 units)
HUM 402 Ancient Roman Literature (3 units)
HUM 403 The Early Middle Ages (3 units)
HUM 404 The High Middle Ages (3 units)
HIST 331 The High Middle Ages (3 units)
HUM 405 Art, Literature, and Power in the Renaissance (3 units)
HUM 407 Romanticism and Impressionism (3 units)
HUM 410 The Modern Revolution (3 units)
HUM 432 Nietzsche and Postmodernism (3 units)
HUM 434 Arendt and Heidegger (3 units)
HUM 550 The Art of Autobiography (3 units)

American Culture Studies
HUM 321 Jazz and Blues in Film (3 units)
HUM 375 Biography of a City (3 units)
HUM 376 San Francisco (3 units)
HUM 450 California Culture (3 units)
HUM 455 Humanities of the Americas (3 units)
HUM 470 American Autobiography (3 units)
HUM 480 Thought and Culture in America to 1880 (3 units)
HUM 481 Thought and Culture in America: 1880 to the Present (3 units)
HUM 485 The Arts and American Culture (3 units)
HUM 490 American Images: Photography and Literature (3 units)
HUM 520 North and South American Cultural Expression (3 units)

Asian Culture Studies
HUM 366 India's Gandhi (3 units)
HUM 375 Biography of a City (3 units)
HUM 507 Art of China (3 units)
HUM 526 Culture of Japan before 1850 (3 units)
HUM 527 Japan and Modernity (3 units)
HUM 530 Chinese Civilization (3 units)
HUM 531 Images of Modern China (3 units)
HUM 532 From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts (3 units)
HUM 535 Classical South Asian Cultural Forms (3 units)
HUM 536 Modern South Asian Cultural Forms (3 units)
Bachelor of Arts in Humanities – ARTH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Art History. Three units in the major (Additional Course) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 301</td>
<td>Form and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 425</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 300GW</td>
<td>Junior Seminar Humanities Writing - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 303</td>
<td>History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Asian Culture Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – American Culture Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective – European Culture Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Cross-cultural studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Asian Culture Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – American Culture Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 690</td>
<td>Senior Seminar in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Cross-cultural studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – European Culture Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if UD GE are already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1 Check for courses that also satisfy Upper Division GE: UD-C.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 6–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (6–9 units): Many courses satisfying the Culture Studies areas also satisfy UD-C.
Students entering the major with the AA-T in Art History are not required to fulfill SF State Studies requirements.
Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**Humanities Major: 39 Units**
Three units from the Art History AA-T may be applied to the Additional Courses area.
• Core (15 units) – includes GWAR-designated course
• Cross-Cultural Studies (6 units)
• European Culture Studies (6 units)
• American Culture Studies (6 units)
• Asian Culture Studies (6 units)
• Additional Courses (0 units – consult with major advisor about applying units from the AA-T)

**University Electives: Three or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Minor in Humanities

Humanities Minor – 21 units

Core (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 301</td>
<td>Form and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 303</td>
<td>History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 425</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 units)

Units selected on advisement in one or more of the culture study areas of the major and up to 3 units may be taken outside the department.

Master of Arts in Humanities

Admission to the Program

Applications for admission should include a statement of the applicant’s purpose in applying to the program, a writing sample, and two letters of recommendation. Applicants whose native language is not English and whose B.A. is from a university in which English is not the medium of instruction must have a minimum TOEFL score of 570 (computer-based TOEFL 230). The GRE is not required.

Admission to classified standing in the program is given on evaluation of several factors in an applicant’s education and experience. Of considerable importance are the subjects and range of undergraduate study; emphasis is given to courses in literature, history, languages, philosophy, the arts, cross-cultural and interdisciplinary humanities, but studies in the sciences or social sciences may also be valuable.

Written English Proficiency Requirement

Level One (entry)

The department admissions committee will evaluate Level One written English proficiency based on the applicant’s 500-word statement of purpose, and an eight to ten page writing sample on a humanities-related topic. Taken together these should show that the applicant understands the nature of the program, has thought carefully about her/his reasons for applying and can articulate them effectively, and can express clearly and thoughtfully in writing on ideas and materials appropriate to the program.

The admissions committee will evaluate the quality of these materials as either insufficient for admission, satisfactory for conditionally classified admission, or satisfactory for admission to classified status. This classification is based on:

1. fluency and precision of expression,
2. clear organization and persuasive argument, and
3. appropriateness of the applicant’s interests and academic experience to the program.

Those who are admitted conditionally must receive a B or better in HUM 700 or HUM 721 in their first semester to be advanced to classified status.

Level Two

Level Two written English proficiency is demonstrated by the quality of the student’s work in HUM 898, or HUM 896 and HUM 896EXM. The criteria are the same for both:

- Ability to articulate a critical framework that encompasses several kinds of primary texts.
- Ability to express one’s perspective about the most significant secondary scholarship on those primary texts.
- Ability to articulate and support an argument of substantial length and complexity.

Advancement to Candidacy

Besides meeting general requirements of the program, students must maintain a 3.0 grade point average to qualify for advancement to candidacy for the master’s degree. Official advancement to candidacy comes about with acceptance of an Advancement to Candidacy form by the Graduate Division.

With the graduate advisor’s approval, most upper division Humanities Department courses may be used to satisfy a portion of the Master of Arts requirements.

Humanities (M.A.) – Minimum 30 units

Core Requirements (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 700</td>
<td>Introduction to Integrative Study</td>
<td>3</td>
</tr>
<tr>
<td>or CWL 800</td>
<td>Introduction to Graduate Study in Comparative Literature</td>
<td></td>
</tr>
<tr>
<td>HUM 721</td>
<td>Culture and Style</td>
<td>3</td>
</tr>
</tbody>
</table>

Integrative Study of Cultural Expression (6 units)

Units selected under advisement from the following (one course must be non-Western):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 710</td>
<td>Seminar in European Forms and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 711</td>
<td>Seminar in American Forms and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 712</td>
<td>Seminar in African Forms and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 713</td>
<td>Seminar in Asian Forms and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Disciplines of the Humanities (6 units)

Units selected under advisement from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 701</td>
<td>Fine Arts in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 702</td>
<td>Literature in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 703</td>
<td>History in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 704</td>
<td>Philosophy in the Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 units)

Units selected on advisement with the graduate coordinator and advisor. A list of suggested electives drawn from Humanities and other M.A. programs will be circulated each semester.

Culminating Experience (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 896</td>
<td>Directed Study of Humanistic Works (and HUM 896EXM Culminating Experience Exam)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>HUM 898</td>
<td>Master’s Thesis (and Oral Defense of Thesis)</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience

The candidate must present a proposal and bibliography for his/her culminating project in writing to a Humanities faculty member by one week before the Graduate Division’s deadline for Culminating Experience and ATC forms in the semester prior to enrolling in HUM 896EXM or HUM 898. The chosen culminating experience
(HUM 896 or HUM 898) should be integral to the candidate’s larger M.A. plan and with his/her longer career objective. It will be carried out in the final semester of work for the degree, with the aid of a graduate faculty member acting as chair and first reader; at least one other faculty member will serve as the first reader on the student’s M.A. committee and will join as second reader in evaluation of the culminating experience. Both HUM 896EXM and HUM 898 require an oral defense of the thesis.

Second Language

Reading proficiency in a second language is required. Under exceptional circumstances, a candidate may petition to substitute demonstrable proficiency in an auxiliary skill that has a clear relationship to his/her M.A. program.
INTERNATIONAL RELATIONS

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of International Relations
Humanities Building, Room 282
E-mail: ir@sfsu.edu
Phone: (415) 405–3917

Chair: Mahmood Monshipouri
Graduate Coordinator: Burcu Ellis

Program Scope and Student Learning Objectives
The courses of study for the Bachelor of Arts in International Relations have three objectives: to impart knowledge of basic concepts, theories and methods in international relations; to develop in each student at least one area of special individual competence in international relations; and to train students in research, analytical, and presentation/communication skills. Liberal arts educational goals are emphasized but the program seeks also to develop marketable skills appropriate to the field. These include report writing, statistical and computer applications, public policy analysis, oral briefing techniques, and audio-visual production.

Utilizing the extensive course offerings in the program and other departments, students are able, on advisement, to develop individual areas of specialization within geographical, functional (e.g., international political economy), problem-oriented (e.g., arms control), theoretical/methodological, and other categories. Field work may also be part of an area of specialization.

The emphasis upon elective courses of study requires that a student consult with an advisor every semester.

Career Outlook
Employment possibilities for graduates in international relations exist in business, government, electronic and print journalism, teaching and private international service (e.g., U.N. Association, Red Cross, etc.). Students completing a degree find it excellent preparation for entry into highly competitive programs of advanced study or work abroad in areas of special interest or knowledge.

Professors
Banerjee, Hanami, McAfee, Monshipouri, Tsygankov, Volk, Yansané

Associate Professors
Darling, Ellis, Skonieczny

Assistant Professor
Siegel

Lecturers
Crosbie, Fiene, Levi-Sanchez, Whooley

Major
• Bachelor of Arts in International Relations (p. 845)

Minor
• Minor in International Relations (p. 852)

Masters
• Master of Arts in International Relations (p. 852)

Bachelor of Arts in International Relations

International Relations (B.A.) — 43 Units

Core (19 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>I R 104</td>
<td>Introduction to World Affairs</td>
<td>3</td>
</tr>
<tr>
<td>I R 308</td>
<td>Fundamentals of International Relations Theories, Issues, and Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>I R 309GW</td>
<td>International Relations Analysis and Application - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>I R 310</td>
<td>U.S. Foreign Policy</td>
<td>4</td>
</tr>
<tr>
<td>I R 312</td>
<td>Introduction to International Political Economy</td>
<td>4</td>
</tr>
</tbody>
</table>

Emphasis/Electives (18 Units)
Students are encouraged to select an emphasis by choosing course work in Area Studies, International Institutions, or Global Problems in consultation with an advisor. Twelve units of course work must be in I R.

Culminating Requirements (6 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>I R 550</td>
<td>Proseminar in Foreign Policy Analysis</td>
<td>6</td>
</tr>
</tbody>
</table>

Complementary Studies
Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in International Relations. These units must come from courses bearing a prefix other than I R, and not cross-listed with I R.

International Relations majors are offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. International Relations majors may, with the approval of an International Relations advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in a related discipline. Related disciplines typically include: political science, sociology, anthropology, environmental studies, geography, global health, or journalism.

Up to six units of a single language or six upper division units of complementary studies may, with the approval of a departmental advisor, also be counted as International Relations electives in fulfillment of major requirements.

Note: Courses fulfilling the IR major core requirement may not be taken on a CR/NC basis.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
</tbody>
</table>
### Critical Thinking
LD 3 A3

### Written English Communication II
LD 3 A4

### Physical Science
LD 3 B1

### Life Science
LD 3 B2

### Lab Science
LD 1 B3

### Mathematics/ Quantitative Reasoning
LD 3 B4

### Arts
LD 3 C1

### Arts or Humanities
LD 3 C1 or C2

### Humanities: Literature
LD 3 C3

### Social Sciences
LD 3 D1

### Social Sciences: US History
LD 3 D2

### Social Sciences: US & CA Government
LD 3 D3

### Lifelong Learning and Self-Development (LLD)
LD or UD 3 E

### Physical and/or Life Science
UD 3 UD-B

### Arts and/or Humanities
UD 3 UD-C

### Social Sciences
UD 3 UD-D

### SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>American Ethnic and Racial Minorities (AERM)</th>
<th>LD or UD</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

---

### This degree program is an approved pathway (“similar” major) for students earning the ADT in Global Studies

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer. 
   - a course in U.S. History 
   - a course in U.S. & California Government 
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

---

### Transfer Student Roadmap (2 Year)

For students with an AA-T in Global Studies. This roadmap opens in a new tab. (p. 850)
• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Arts in International Relations Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 43

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or Written English Communication (A2) Stretch II</td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>I R 104</td>
<td>Introduction to World Affairs</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>I R 308</td>
<td>Fundamentals of International Relations Theories, Issues, and Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>I R 310</td>
<td>U.S. Foreign Policy</td>
<td>4</td>
</tr>
<tr>
<td>Emphasis Electives (18 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>I R 309GW</td>
<td>International Relations Analysis and Application - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>I R 312</td>
<td>Introduction to International Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>Emphasis Electives (18 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Emphasis Electives (18 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective – Take Two 3

<table>
<thead>
<tr>
<th>Units</th>
<th>15</th>
</tr>
</thead>
</table>

Eighth Semester

| I R 550 | Proseminar in Foreign Policy Analysis | 6 |
| Emphasis Electives (18 units) – Take Two | 6 |
| Complementary Studies or SF State Studies or University Elective | 3 |

<table>
<thead>
<tr>
<th>Units</th>
<th>15</th>
</tr>
</thead>
</table>

| Total Units | 120-121 |

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in International Relations. These units must come from courses bearing a prefix other than I R, and not cross-listed with I R.

   International Relations majors are offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. International Relations majors may, with the approval of an International Relations advisor, elect to apply 12 units in a single foreign language of their choosing, courses taken in an approved study abroad program (e.g., CSU Study Abroad), courses taken as part of a second major, a minor or a certificate, and courses in a related discipline. Related disciplines typically include: political science, sociology, anthropology, environmental studies, geography, global health, or journalism.

   Up to six units of a single language or six upper division units of complementary studies may, with the approval of a departmental advisor, also be counted as International Relations electives in fulfillment of major requirements.

   Note: Courses fulfilling the IR major core requirement may not be taken on a CR/NC basis.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. Students are encouraged to select an emphasis by choosing course work in Area Studies, International Institutions, or Global Problems in consultation with an advisor. Twelve units of course work must be in I R.
# Bachelor of Arts in International Relations – GLST Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Global Studies. Three units in the major (I R 104) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I R 308</td>
<td>Fundamentals of International Relations Theories, Issues, and Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>I R 310</td>
<td>U.S. Foreign Policy</td>
<td>4</td>
</tr>
<tr>
<td>IR major elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I R 309GW</td>
<td>International Relations Analysis and Application - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>I R 312</td>
<td>Introduction to International Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US/CA Government met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I R 550</td>
<td>Proseminar in Foreign Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>IR Major Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IR Major Elective - Take Three</td>
<td>11-12</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1 Certain IR electives also satisfy Upper Division GE UD-D

## To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

### University-Wide Requirements: 9–18 Units

- ENG 214 or equivalent A4 course (0–3 units) if not completed prior to transfer.
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not met pre-transfer.
- Upper division GE areas B, C and D (9 units): Look for IR major elective courses that satisfy Upper Division GE: UD-D
- Students entering the major with the AA-T in Global Studies are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.
International Relations Major: 40 Units
I R 104 met in transfer.

- Core Requirements (16 units)
- Emphasis/Electives (18 units): In consultation with a department advisor, students select one of the following emphases: Area Studies; International Institutions; Global Problems. 12 of the required 18 units must be courses with the I R prefix.
- Culminating Experience Requirement (6 units): I R 550

University Electives: Three or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Minor in International Relations

Requirements under the major program relating to upper division work, limitations on CR/NC grading, and order in which courses are taken also apply to the minor.

International Relations Minor – 20 units

Required Courses (12 units)
- I R 308 Fundamentals of International Relations Theories, Issues, and Perspectives (4 units)
- I R 310 U.S. Foreign Policy (4 units)
- I R 312 Introduction to International Political Economy (4 units)

Electives (8 units)
Electives with an international relations prefix including International Relations cross-listed courses that appear under an alternative prefix.

Master of Arts in International Relations

Admission to Program
To receive serious consideration, applicants will have a bachelor’s degree (or equivalent) with relevant course work and a grade point average of at least 3.3 (out of 4.0) in the last 60 units of undergraduate study. Students below the 3.3 GPA threshold may still receive consideration if the other elements of their application portfolio are strong. Applicants who have taken appropriate undergraduate courses in International Relations could be admitted without conditions. Applicants without an appropriate background in International Relations may be admitted conditionally and must meet conditions before taking graduate level courses. Detailed, current application requirements and procedures are available on our Prospective Applicants (http://internationalrelations.sfsu.edu/content/prospective-graduate-students) webpage.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two different points in a student’s program.

Level One
Completion of I R 720 with a grade of B or better.

Level Two
Completion of I R 898 or I R 892 with a grade of CR (credit).

Advancement to Candidacy
Students are encouraged to meet with their advisor on a regular basis. During the second semester or after having completed nine units, students should prepare in consultation with the graduate coordinator an Advancement to Candidacy (http://grad.sfsu.edu/content/current-students/atc) (ATC). At this time, all general requirements for advancement to candidacy and all conditions imposed at the time of admission to the program must have been met.

Grades
Students in the graduate program must maintain a 3.0 grade point average. A grade lower than B in I R 720 is sufficient to disqualify a student from the program.

International Relations (M.A.) – Minimum 33 units

Core (18 units)
- I R 720 Theory and Approaches in International Relations (3 units)
- I R 725 The Analysis of Foreign Policy (3 units)
- I R 728 International Political Economy (3 units)
- The International System and its Problems: a course in the range I R 730 to I R 739 (3 units)
- Comparative Foreign Policies: a course in the range I R 740 to I R 749 (3 units)
- Select one additional class from either of the above series (I R 730 to I R 739, or I R 740 to I R 749) (3 units)

Academic Emphasis (16 units)
- I R 750 Methods and Thesis Selection in International Relations (3 units)
- I R 751 Alternative Research Methods in International Relations (or equivalent- any course covering multiple regression such as PSY 772 or SOC 393) (4 units)
- Select 6 units of Electives in international relations or related disciplines (6 units)

Culminating Experience
- I R 898 Master’s Thesis (3 units)

Professional Emphasis (15 units)
- I R 750 Methods and Thesis Selection in International Relations (3 units)

Thematic Courses
Thematic combination of courses (total nine units) in fields of inquiry and training such as: public administration; international business, management, or finance; international development; international environmental studies, or other fields related to international careers. Approval of graduate advisor required.

Culminating Experience
- I R 892 Sponsored Graduate Internship in International Relations (3 units)
JEWSIH STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Jewish Studies
Humanities Building, Room 416
Phone: (415) 338-6075

Department Chair: Fred Astren
Undergraduate Advisors: Astren, Dollinger, Gross, Kaplan, Millet

Program Scope
The Bachelor of Arts in Modern Jewish Studies program is designed to provide an understanding of Jews and Judaism in terms of the interactions of culture, history, and religion. The challenge of modernity faced by Jews and Judaism over the last two hundred years has transformed traditional Jewish societies and generated a great measure of difference and diversity. After a history of more than two millennia, Jews have redefined religion, notions of identity, and social organization in contexts of a dominant culture (in Israel) and a minority culture (elsewhere in the world). The broader dynamics of how ethnic, religious, or racial minorities interact with the majority societies are examined in both these contexts. Courses explore the constants and variety of the Jewish experience in different historical periods and geographical settings and include language study.

Minor in Jewish Studies
The interdisciplinary minor consists of four three-unit core courses and two three-unit elective courses selected on advisement from offerings by a variety of colleges of the University. The purpose of the interdisciplinary Jewish Studies Minor is to acquaint the student with the history, culture, contributions, and religion of the Jewish people as seen through the eyes of modern academic disciplines and with particular reference to contemporary issues and patterns. Students can use the Minor in Jewish Studies to complement their majors and, with advising, to fulfill General Education requirements.

Career Outlook
The Bachelor of Arts in Modern Jewish Studies and the Jewish Studies Minor offer an excellent background for students interested in Judaism as the basis for scholarly or professional pursuits, increasing the depth of understanding of the history, culture, contributions, and religion of the Jewish people within the context of a major discipline of study and prepare students for careers as educators and community professionals.

Jewish Studies Learning Outcomes
1. Students develop interpretive and analytical skills in reading Jewish religious texts.
2. Students develop interpretive and analytical skills in reading Jewish literary texts.
3. Students gain knowledge of the history and cultures of Jews and Judaism in the ancient, medieval, and modern periods in the Americas, Europe, the Middle East, and North Africa.
4. Students gain knowledge of the relationships of Jews and Judaism to other peoples, religions, and cultures in the Americas, Europe, the Middle East, and North Africa.
5. Students gain knowledge of the ways that Jews and Judaism illuminate the histories, literatures, religions, and cultures of non-Jews in the world.
6. Students gain knowledge of the ways that non-Jewish histories, literatures, religions, and cultures are necessary to understand Jews and Judaism in the world.
7. Students find, read, understand, and assimilate primary and secondary research materials.

Professors
Astren, Dollinger, Millet, Kaplan

Assistant Professor
Gross

Lecturer
Rosenwald

Major
• Bachelor of Arts in Modern Jewish Studies (p. 853)

Minor
• Minor in Jewish Studies (p. 861)

Bachelor of Arts in Modern Jewish Studies
The Bachelor’s Degree in Modern Jewish Studies is designed for students coming from any and all religious and ethnic backgrounds, and for those with no religious background at all. The teaching philosophy in the Department of Jewish Studies is to use academic approaches of disciplines from across the university to study religion, literature, history, culture, language, and all other aspects of Jewish life and experience.

To ensure a useful and meaningful university experience, all majors must consult an advisor regularly as they progress through the degree program. Students are also advised to consult with the University’s Advising Center for information about General Education and other University requirements, as well as the Student Achievement and Resource Center in the College of Liberal & Creative Arts: lca.sfsu.edu/academics/student-achievement-and-resource-center.

Modern Jewish Studies (B.A.) – 30 units
The Bachelor’s Degree in Modern Jewish Studies requires a total of 30 units. All Jewish Studies majors are expected to take 12 units from the Core Courses, three units of a Culminating Experience, 12 units of Electives, and three units in a GWAR course.

Twelve units of complementary studies are required of all candidates for the Bachelor’s Degree in Modern Jewish Studies. These units are courses that have a prefix other than JS and that are not cross-listed with Jewish Studies. One of the recommended ways to fulfill this requirement is to take four Hebrew language courses.

• Courses that fulfill the Core and Culminating Experience requirements must be taken for a letter grade. CR/NC grading is not accepted for Core and Culminating Experience courses.

853
• Students must earn a grade of C or better in their selected GWAR designated course, and a C− or better in all other required degree courses.

**Major Core (12 units)**
Select four courses from the following:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 280</td>
<td>Introduction to Jewish Studies</td>
<td>3</td>
</tr>
<tr>
<td>or JS 301</td>
<td>Judaism, An Introduction</td>
<td></td>
</tr>
<tr>
<td>JS/I R/PLSI 430</td>
<td>Israeli Democracy: Politics, Institutions, and Society</td>
<td>3</td>
</tr>
<tr>
<td>JS/CWL 437/ENG 533</td>
<td>Holocaust and Literature</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 449</td>
<td>American Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>JS/CWL 480</td>
<td>European Jewish Writers</td>
<td>3</td>
</tr>
<tr>
<td>JS 540</td>
<td>Anti-Semitism</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 632</td>
<td>Jewish History I: Beginnings to 1650</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 101</td>
<td>First Semester Modern Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>or HEBR 102</td>
<td>Second Semester Modern Hebrew</td>
<td></td>
</tr>
<tr>
<td>or HEBR 201</td>
<td>Third Semester Modern Hebrew</td>
<td></td>
</tr>
<tr>
<td>or HEBR 202</td>
<td>Fourth Semester Modern Hebrew</td>
<td></td>
</tr>
</tbody>
</table>

**Electives (12 units)**
Select four JS upper division courses. These can include courses from the major core list. Courses from the major core cannot be double counted to fulfill both the core and elective requirements. A maximum of six units outside Jewish Studies may be counted toward the major with approval of a major advisor.

**GWAR Course (3 units)**
Select any GWAR course from any discipline or department with approval of a major advisor.

**Culminating Experience (3 units)**
Select one of the following:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 600</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>or JS 699</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

**Complementary Studies**
Twelve units of complementary studies are required of all candidates for the B.A. in Modern Jewish Studies. These units are courses that have a prefix other than JS and that are not cross-listed with Jewish Studies. Students can satisfy this requirement by completing a related minor, a second major, studying a pertinent foreign language, or through an approved study abroad program. Complementary studies courses should relate to the Jewish Studies major, as well as deepen and enrich student focus in the major, whether that focus is religion, literature, philosophy, history, social responsibility, or the study of Israel. Such courses are typically found through the College of Liberal & Creative Arts.

Note: Students that complete two majors, a major and a minor, automatically complete the complementary studies requirement.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.
Transfer Student Roadmap (2 Year)

For students with an AA-T in History or Political Science. This roadmap opens in a new tab. (p. 859)

This degree program is an approved pathway ("similar" major) for students earning the ADT in History or Political Science

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#A3EL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Arts in Modern Jewish Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 30

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) 2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective 3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
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</tr>
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<td><strong>Second Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) 4</td>
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</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective 2</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) 4</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective 3</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three 3</td>
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<tr>
<td><strong>Units</strong></td>
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</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
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</tr>
<tr>
<td>Electives (12 units) 5</td>
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<td></td>
</tr>
<tr>
<td>Major Core (12 units) 5</td>
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<tr>
<td>GWAR Course 7</td>
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</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective 3</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>Electives (12 units) 5</td>
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<td>Major Core (12 units)</td>
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<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Seventh Semester</strong></td>
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<tr>
<td>Electives (12 units) 5</td>
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<tr>
<td>Major Core (12 units)</td>
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<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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</table>
Complementary Studies or SF State Studies or University Elective – Take Two ³

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
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</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 600</td>
<td>3</td>
</tr>
<tr>
<td>or JS 699</td>
<td></td>
</tr>
<tr>
<td>Electives (12 units) ⁵</td>
<td>3</td>
</tr>
<tr>
<td>Major Core (12 units) ⁶</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complementary Studies or SF State Studies or University Elective – Take Two ³</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units: 120-122

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Complementary Studies**
   Twelve units of complementary studies are required of all candidates for the B.A. in Modern Jewish Studies. These units are courses that have a prefix other than JS and that are not cross-listed with Jewish Studies. Students can satisfy this requirement by completing a related minor, a second major, studying a pertinent foreign language, or through an approved study abroad program. Complementary studies courses should relate to the Jewish Studies major, as well as deepen and enrich student focus in the major, whether that focus is religion, literature, philosophy, history, social responsibility, or the study of Israel. Such courses are typically found through the College of Liberal & Creative Arts. Note: Students that complete two majors, a major and a minor, automatically complete the complementary studies requirement. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.
4. **New Footnote**
   Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
5. **Electives (12 units)**
   Select four JS upper division courses. These can include courses from the major core list. Courses from the major core cannot be double counted to fulfill both the core and elective requirements. A maximum of six units outside Jewish Studies may be counted toward the major with approval of a major advisor.
6. **Major Core (12 units)**
   Select four courses from the following:
   - JS 280 Introduction to Jewish Studies (3 units)
   - or JS 301 Judaism, An Introduction (3 units)
   - JS 430 Israeli Democracy: Politics, Institutions, and Society (3 units)
   - JS 437 Holocaust and Literature (3 units)
   - JS 449 American Jewish History (3 units)
   - JS 480 European Jewish Writers (3 units)
   - JS 540 Anti-Semitism (3 units)
   - JS 632 Jewish History I: Beginnings to 1650 (3 units)
   - HEBR 101 First Semester Modern Hebrew (3 units)
     - or HEBR 102 Second Semester Modern Hebrew (3 units)
     - or HEBR 201 Third Semester Modern Hebrew (3 units)
     - or HEBR 202 Fourth Semester Modern Hebrew (3 units)
7. **GWAR Course (3 units)**
   Select any GWAR course from any discipline or department with approval of a major advisor.
# Bachelor of Arts in Modern Jewish Studies – HIST or POLS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with either an AA-T in History or an AA-T in Political Science. All lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University GWAR 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) 2</td>
<td>or University Elective if A4 was met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JS 600</td>
<td>Internship or Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>or JS 699</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Core – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies</td>
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<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. Must be upper division. May be selected from the Core list, but courses cannot double-count for both Core and Elective requirements. Up to six units outside Jewish Studies may be applied to the major with approval of a department advisor.

2. ENG 214 or equivalent is a prerequisite for many upper division JS courses and for upper division GE courses. If ENG 214 equivalent is not completed prior to transfer, the GWAR course must be taken in the second semester; progress in the major and length of time for degree completion will be affected.

3. JS 301, JS 437, JS 449, JS 480, JS 540 and JS 632 satisfy Upper Division GE: UD-C.

4. JS 430 satisfies Upper Division GE: UD-D.

5. JS 449 also satisfies US History, if needed.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer.
- American Institutions (0–6 units): US History, US Government & CA State and Local Government requirements if not taken before transfer.
- Upper division GE (9 units): Many courses in the major also satisfy UD-C or UD-D. Students should attempt to enroll in a UD-B course in the first or second semester in order to complete the upper division GE requirement.
- Students entering this major with the AA-T in History or the AA-T in Political Science are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Modern Jewish Studies Major: 30 Units
- Core (12 units)
- GWAR course (3 units) – Select from any discipline or department with approval of a Modern Jewish Studies department advisor
- Electives (12 units) – Must be upper division. May be selected from the Core list, but courses cannot double-count for both Core and Elective requirements. Up to 6 units outside Jewish Studies may be applied to the major with approval of a department advisor.
- Culminating Experience (3 units)

University Electives: Nine or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.

Major Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>JS 280</td>
<td>Introduction to Jewish Studies</td>
<td>3</td>
</tr>
<tr>
<td>JS 301</td>
<td>Judaism, An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>JS/I R/PLSI 430</td>
<td>Israeli Democracy: Politics, Institutions, and Society</td>
<td>3</td>
</tr>
<tr>
<td>JS/CWL 437/ENG 533</td>
<td>Holocaust and Literature</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 449</td>
<td>American Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>JS/CWL 480</td>
<td>European Jewish Writers</td>
<td>3</td>
</tr>
<tr>
<td>JS 540</td>
<td>Anti-Semitism</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 632</td>
<td>Jewish History I: Beginnings to 1650</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 101</td>
<td>First Semester Modern Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 102</td>
<td>Second Semester Modern Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 201</td>
<td>Third Semester Modern Hebrew</td>
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<tr>
<td>HEBR 202</td>
<td>Fourth Semester Modern Hebrew</td>
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</table>
Minor in Jewish Studies

Jewish Studies Minor – 18 units

Core Courses (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS 280</td>
<td>Introduction to Jewish Studies</td>
<td>3</td>
</tr>
<tr>
<td>JS 425/PHIL 552</td>
<td>Judaism: Religion and Text</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 632</td>
<td>Jewish History I: Beginnings to 1650</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 633</td>
<td>Jewish History II: 1650 to Present</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (6 units)

Selected upon advisement.
JOURNALISM

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Journalism
Humanities Building, Room 305
Phone: (415) 338–1689
Email: jour@sfsu.edu
Website: hjournalism.sfsu.edu (http://journalism.sfsu.edu)
Chair: Cristina L. Azocar, Ph.D.

Center for Integration and Improvement of Journalism
HUM 307
Phone: (415) 338–2663
Email: ciij@sfsu.edu (CIIJ@sfsu.edu)

Mission Statement
To educate students and provide leadership in an evolving media landscape by promoting integrity, creativity, innovation and social responsibility in accurately telling the stories of a multicultural world.

Program Scope
The Bachelor of Arts in Journalism prepares students for careers in journalism. This is accomplished by providing instruction that requires students to demonstrate a working knowledge of the skills, laws, ethics, power, and responsibilities of the news media. A strong liberal arts education also is required.

The main goals of the program's skills courses are to help students become accurate and thorough researchers; incisive thinkers who can gauge the quality of information; precise, clear and graceful writers; technically, aesthetically fine photojournalists; and competent digital technologists. Many students choose the major because these skills provide excellent preparation for numerous occupations, not only for journalism.

Students in the Print/Online concentration are required to take introductory courses in research, reporting, writing, digital skills, and editing. Photojournalism concentration students are required to take introductory courses in writing, digital skills, and reporting as well as courses in basic photography and news photography. All students are required to take courses in multimedia journalism. Specialized courses for Print/Online students reflect different areas of expertise—feature writing, public journalism, opinion writing, investigative reporting, magazine writing, design courses and visual journalism for writers and editors. Photojournalism students gain expertise in lighting and telling stories through photographs. In order to understand the role of journalism in society, students also are required to take courses in mass media, journalism ethics and law, and cultural diversity. Students are strongly urged to develop speaking, writing, and listening competency in a second language.

Minor in Non-Journalism Discipline
Because the practice of journalism requires an understanding of larger social, political and cultural issues in society, the program requires students to complete a minor in a liberal arts or science discipline. The list of approved minors can be found on the Journalism department website at http://journalism.sfsu.edu/pages/list-approved-minors.

Students should consult with an academic advisor in journalism to determine the best minor for their interests and professional goals.

Capstone
To give students pre-professional experience, the program requires students to work on a laboratory publication with a worldwide online and broad print circulation. These publications are produced by classes and are taken for credit. Consistent with the department's commitment to protect students' First Amendment rights, students have editorial control of the publications. Students must complete one semester of publication. In their second semester they can choose between working on the student publication, completing an approved internship, completing a senior seminar project or working in the department's News Bureau for professional publications. Students should consult with an advisor to choose the option that works best for them.

Internships
Students may earn up to three units for approved journalism internships and if the internship is rigorous, they may receive credit toward capstone requirements. Students should consult the department office about how to arrange credit for internships. Participating in internships is strongly encouraged. Students who succeed in finding journalism jobs upon graduation are generally those who have two or more internship experiences before they graduate. (http://journalism.sfsu.edu/pages/internship-information)

Advising
To help students stay on top of the challenges they face, the department strongly encourages all majors and minors to receive academic advising with a journalism faculty advisor every semester. The department office makes appointments via email. Students are asked to provide advisors with ongoing records of their complete academic record for the department advising folders. Upper division students will have mandatory advising every year and will have a hold placed on their registration until it's completed. The department will send an email notifying upper division students about mandatory advising.

CIIJ
Services are available to all journalism students at the department's Center for Integration and Improvement of Journalism. CIIJ was established in 1990 to create programs that increase retention rates and job/internship placement of journalism students and to increase ethnic minority enrollment and graduation rates. It conducts special programs for high school and community college students and high school journalism advisors. Department faculty and students have engaged in research about the coverage on ethnic minority people and issues that has had a national and international impact.

The Department and Faculty
The Journalism Department is accredited by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC). It is a member of the California Newspaper Publishers Association and sponsors a student chapter of the National Press Photographers Association.

The faculty includes nine full-time members and a fluctuating number of part-time instructors, most of them active journalists. Faculty encourage and assist students in finding jobs and internships.
Career Outlook
The writing, editing, photography, and online news courses combined with and emphasis on critical thinking, ethics, and clear expression, prepare students for entry-level jobs in a wide variety of print, online and broadcast news organizations and magazines, and in many fields outside journalism. The department’s national reputation for excellence and diversity has drawn the attention of news organizations around the country, making it a key place for job and internship recruitment.

Journalism Learning Outcomes
1. **News Judgment:** Work demonstrates news judgment that identifies and develops story ideas through observation, reading and paying attention to their environment.
2. **Critical and Independent Thinking:** Work demonstrates an ability to synthesize information and think independently and work through problems using inference and logic.
3. **Cultural Competence:** Work demonstrates an understanding of a variety of cultures and how those cultures influence perspectives, attitudes and personal interaction with the world.
4. **Writing:** Work demonstrates concise, clear, and accurate writing that engages the audience with compelling storytelling.
5. **Analytical Competence:** Work demonstrates an ability to discern and weigh the quality of information they gather, as well as know how to analyze and interpret it.
6. **Research and Reporting:** Work demonstrates an ability to methodically find information through personal interviews, public documents, and the Internet.
7. **Media Literacy:** Work demonstrates an ability to competently navigate through a rapidly changing media world, understanding media’s influence on society, community and the democratic process, and that students also understand the power of visual storytelling in shaping society’s understanding of the world.
8. **Ethics, Integrity and the Law:** Work demonstrates knowledge and practice of ethical standards and constitutional laws that guide journalism excellence.
9. **Critical Evaluation:** Work demonstrates critical evaluation of their own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness.
10. **Data and Numbers:** Work demonstrates an ability to apply basic numerical and statistical concepts.
11. **Technology:** Work demonstrates an ability to know when and how to apply technology in their professional work.
12. **Visual Competence:** Work demonstrates a technically competent ability to research, find, and capture a concise and compelling story that reflects the gamut of human experience in a variety of formats.

Professors
Funabiki

Associate Professors
Azocar, Kanigel, Wagner, Wilson

Assistant Professors
Cunningham, Garnier, Komenich, Moorhead

Majors
- Bachelor of Arts in Journalism: Concentration in Print and Online Journalism (p. 866)
- Bachelor of Arts in Journalism: Concentration in Photojournalism (p. 863)

Minors
- Minor in Journalism (p. 873)

Bachelor of Arts in Journalism: Concentration in Photojournalism
To earn the Bachelor of Arts in Journalism, students must complete 43 journalism units. Only ten journalism units may be in the lower division for print/online majors—JOUR 205 and JOUR 221, JOUR 222 and JOUR 226. Only 13 units may be lower division for photojournalism majors—JOUR 205 and JOUR 221, JOUR 222, JOUR 226 and JOUR 235, or their equivalents completed elsewhere. Courses numbered 300 and above are not open to freshmen. Upon enrolling in journalism classes, students will be required to use their SF State email accounts. These email addresses will be used as the primary source of communication between students and the department.

In order to ensure that every journalism student’s education is as rich and varied as possible, the department has established these requirements:

- A journalism major must complete a minor in one of the areas of study approved by faculty advisors. A list of approved disciplines for this requirement is posted at http://journalism.sfsu.edu/pages/list-approved-minors. Students should consult with an academic advisor in journalism to determine the minor that best meets their interests and professional goals.
- A journalism major must have a minimum of 72 non-journalism units in the 120 minimum overall units required for graduation. Included in these 72 units must be the minor in a single subject area chosen in consultation with the advisor. The 72 unit requirement is consistent with the department’s philosophy that a well-rounded education is crucial preparation for journalism and is consistent with the standards of the national accrediting agency (ACEJMC) that evaluates journalism education programs. These standards exclude classes in broadcasting (BECA), public relations (MKTG), and advertising (MKTG) from qualifying as non-journalism units. Photography and film production classes in Art and Cinema are also excluded.

Journalism (B.A.): Concentration in Photojournalism – 43 units
Core (25 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 205</td>
<td>Social Impact of Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 221</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 222</td>
<td>Newswriting Lab</td>
<td>1</td>
</tr>
<tr>
<td>JOUR 226</td>
<td>Digital News Gathering</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 300GW</td>
<td>Reporting - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 307</td>
<td>News Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 395</td>
<td>Online Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 400</td>
<td>Multimedia Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>
Journalism majors and minors must earn a minimum grade of C in all JOUR 235, JOUR 335, JOUR 435, and JOUR 535.

**Capstone (6 units)**

JOUR 609  Publication Laboratory  3

For the Second Semester Capstone select one of the following:

JOUR 608  News Bureau Publication Lab  3
JOUR 609  Publication Laboratory  3
JOUR 617  Journalism Internship  3
JOUR 695  Senior Seminar  3

**Non-journalism units (includes required minor): 72 units**

These 72 units must include a single subject minor chosen in consultation with an advisor. Classes in broadcasting (BECA), public relations and advertising (MKTG), and classes in film (CINE) and photography (ART) do not qualify as non-journalism units.

Total units for Degree: 120

**Note:** A minimum of 43 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

**Skills Courses**

Skills courses offered by the Department of Journalism impart the various skills and crafts necessary to the practice of journalism. There are three levels of skills courses: foundational, advanced, and capstone. The capstone skills courses provide students a culminating opportunity to integrate skills acquired in foundational and advanced courses, working and learning collaboratively. Journalism majors and minors must earn grades of C or better in all foundational, advanced, and capstone skills courses.

**Other Requirements**

Students may enroll in only one laboratory course section per semester.

Journalism majors and minors must earn a minimum grade of C in all skills, concentration, advanced and capstone courses, and must attain at least an overall C average in the major and the minor.

Journalism majors and minors must take all journalism courses for letter grade only with the exception of JOUR 617 which may be taken C/NC.

**Complementary Studies**

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Journalism. Students completing the Bachelor of Arts in Journalism must complete a minor that has been approved by the department. The minor fulfills the Complementary Studies Requirement.

How GWAR is satisfied for the Journalism major: JOUR 300GW, required for all majors.

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**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Government</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities</td>
<td>UD or LD</td>
<td>3</td>
</tr>
<tr>
<td>Environment and Sustainability (ES)</td>
<td>UD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>UD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice</td>
<td>UD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Journalism: Concentration in Photojournalism Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 42

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) (^1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) (^2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td>JOUR 205</td>
<td>Social Impact of Journalism</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) (^4)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR 221</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 222</td>
<td>Newswriting Lab</td>
<td>1</td>
</tr>
<tr>
<td>JOUR 235</td>
<td>Photojournalism I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) (^4)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^3)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td>JOUR 226</td>
<td>Digital News Gathering</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two (^3)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>JOUR 300GW</td>
<td>Reporting - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 307</td>
<td>News Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 330</td>
<td>Editing</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units) (^5)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>JOUR 335</td>
<td>Photojournalism II</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 395</td>
<td>Online Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 400</td>
<td>Multimedia Journalism</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units) (^5)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td>JOUR 435</td>
<td>Photojournalism III</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 609</td>
<td>Publication Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>JOUR 610</td>
<td>Cultural Diversity and News Media</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Eighth Semester</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Capstone Elective – Select One</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 535</td>
<td>Photojournalism IV</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective or Minor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>120-122</strong></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**
   All students completing a B.A. degree must satisfy the 12 unit Complementary Studies requirement. Students who complete the Liberal Studies major will automatically satisfy complementary studies with 12 units of courses outside of the Liberal Studies prefix (LS) and not cross-listed with LS. Students must consult with an advisor to identify the courses that will be used to satisfy the requirement. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. **Non-journalism units (includes required minor): 72 Units**
   These 72 units must include a single subject minor chosen in consultation with an advisor. Classes in broadcasting (BECA (p. 1418)), public relations (MKTG (p. 1666)), advertising (MKTG (p. 1666)), and production classes in film (CINE (p. 1440)) and photography (ART (p. 1390)) do not qualify as non-journalism units.

6. **Capstone Elective**
   JOUR 608 News Bureau Publication Lab (3 units)
   JOUR 609 Publication Laboratory (3 units)
   JOUR 617 Journalism Internship (3 units)
   JOUR 695 Senior Seminar (3 units)
Bachelor of Arts in Journalism: Concentration in Print and Online Journalism

To earn the Bachelor of Arts in Journalism, students must complete 43 journalism units. Only ten journalism units may be lower division for print/online majors – JOUR 205 and JOUR 221, JOUR 222 and JOUR 226. Only 13 units may be lower division for photojournalism majors – JOUR 205 JOUR 221, JOUR 222, JOUR 226, and JOUR 235, or their equivalents completed elsewhere. Courses numbered 300 and above are not open to freshmen. Upon enrolling in journalism classes, students will be required to use their SF State email accounts. These email addresses will be used as the primary source of communication between students and the department.

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Journalism (B.A.): Concentration Print and Online Journalism – 43 Units

Core (25 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 205</td>
<td>Social Impact of Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 221</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 222</td>
<td>Newswriting Lab</td>
<td>1</td>
</tr>
<tr>
<td>JOUR 226</td>
<td>Digital News Gathering</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 300GW</td>
<td>Reporting - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 307</td>
<td>News Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 395</td>
<td>Online Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 400</td>
<td>Multimedia Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 610</td>
<td>Cultural Diversity and News Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Print and Online Journalism (12 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 330</td>
<td>Editing</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Journalism Elective

Select two courses with at least one from Writing:

Writing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 320</td>
<td>Investigative Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>

JOUR 321 Feature Writing 3
JOUR 560 Public Journalism 3
JOUR 570 Opinion Writing 3
JOUR 575 Community Media 3
JOUR 580 Environmental Journalism 3
JOUR 595 Magazine Writing 3
JOUR 650 Seminar: Contemporary News 3
JOUR 667 Seminar: Topics in Journalism 3

Specialized Journalism

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 426</td>
<td>Data Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 495</td>
<td>Profiles</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 500</td>
<td>Contemporary Magazines</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 582</td>
<td>Social Media Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 675</td>
<td>News Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 680</td>
<td>Advanced Multimedia Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

Visual Journalism

Select one 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 235</td>
<td>Photojournalism I</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 336</td>
<td>Visual Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 450</td>
<td>Publication Design and Graphics</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone (6 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 609</td>
<td>Publication Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

For the Second Semester Capstone Elective select one:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 608</td>
<td>News Bureau Publication Lab</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 609</td>
<td>Publication Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 617</td>
<td>Journalism Internship</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 695</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Non-journalism units (includes required minor): 72 Units

These 72 units must include a single subject minor chosen in consultation with an advisor. Classes in broadcasting (BECA), public relations (MKTG), advertising (MKTG), and production classes in film (CINE) and photography (ART) do not qualify as non-journalism units.

Complementary Studies

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Journalism. Students completing the Bachelor of Arts in Journalism must complete a minor that has been approved by the department. The minor fulfills the Complementary Studies Requirement.

How GWAR is satisfied for the Journalism major: JOUR 300GW, required for all majors.

Total units for Degree: 120

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
</tbody>
</table>
Physical Science  LD  3  B1
Life Science  LD  3  B2
Lab Science  LD  1  B3
Mathematics/ Quantitative Reasoning  LD  3  B4
Arts  LD  3  C1
Arts or Humanities  LD  3  C1 or C2
Humanities: Literature  LD  3  C3
Social Sciences  LD  3  D1
Social Sciences: US History  LD  3  D2
Social Sciences: US & CA Government  LD  3  D3
Lifelong Learning and Self-Development (LLD)  LD or UD  3  E
Physical and/or Life Science  UD  3  UD-B
Arts and/or Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering, and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.
Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in Journalism: Concentration in Print and Online Journalism Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 43

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>JOUR 221</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 222</td>
<td>Newswriting Lab</td>
<td>1</td>
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<tr>
<td>Minor (18 units) – Take Two</td>
<td>6</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR 226</td>
<td>Digital News Gathering</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 300GW</td>
<td>Reporting - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 307</td>
<td>News Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR 235</td>
<td>Photojournalism I</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 336</td>
<td>Visual Storytelling</td>
<td></td>
</tr>
<tr>
<td>JOUR 450</td>
<td>Publication Design and Graphics</td>
<td></td>
</tr>
<tr>
<td>JOUR 395</td>
<td>Online Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 400</td>
<td>Multimedia Journalism</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 609</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 610</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Journalism Elective (6 units)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capstone Elective – Select One</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Journalism Elective (6 units)</td>
<td>3</td>
</tr>
<tr>
<td>Minor (18 units)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective or Minor – Take Two</td>
<td>5</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>120-122</strong></td>
</tr>
</tbody>
</table>

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3 **Complementary Studies**

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Journalism. Students completing the Bachelor of Arts in Journalism must complete a minor that has been approved by the department. The minor fulfills the Complementary Studies Requirement.

4 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5 **Non-journalism units (includes required minor): 72 Units**

These 72 units must include a single subject minor chosen in consultation with an advisor. Classes in broadcasting (BECA), public relations (MKTG), advertising (MKTG), and production classes in film (CINE) and photography (ART) do not qualify as non-journalism units.

6 **Advanced Journalism Elective**

Select two courses with at least one from Writing:

- **Writing**
  - JOUR 320 Investigative Reporting (3 units)
  - JOUR 321 Feature Writing (3 units)
  - JOUR 560 Public Journalism (3 units)
  - JOUR 570 Opinion Writing (3 units)
  - JOUR 575 Community Media (3 units)
  - JOUR 580 Environmental Journalism (3 units)
  - JOUR 595 Magazine Writing (3 units)
  - JOUR 650 Seminar: Contemporary News (3 units)
  - JOUR 667 Seminar: Topics in Journalism (3 units)

- **Specialized Journalism**
  - JOUR 426 Data Journalism (3 units)
  - JOUR 495 Profiles (3 units)
  - JOUR 500 Contemporary Magazines (3 units)
  - JOUR 582 Social Media Journalism (3 units)
  - JOUR 675 News Entrepreneurship (3 units)
  - JOUR 680 Advanced Multimedia Journalism (3 units)

7 **Capstone Elective**

- JOUR 608 News Bureau Publication Lab (3 units)
- JOUR 609 Publication Laboratory (3 units)
- JOUR 617 Journalism Internship (3 units)
- JOUR 695 Senior Seminar (3 units)
Minor in Journalism

This program is not a requirement for any credential or degree but is intended to give students an opportunity to pursue their interests in journalism in an organized way. A total of 21 units is required.

Journalism Minor — 21 units

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 205</td>
<td>Social Impact of Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 221</td>
<td>Newswriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 226</td>
<td>Digital News Gathering</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 300GW</td>
<td>Reporting - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 307</td>
<td>News Media Law and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6 units)

Choose any two other journalism courses
LATIN AMERICAN STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

Latin American Studies Program
Humanities Building, Room 427
Phone: (415) 405–3492
Coordinator: Juanita Darling

Program Scope
The minor in Latin American Studies is a multidisciplinary program designed to provide undergraduate students with an understanding of Latin American societies, including their history and literature, as well as economic and political developments. The minor emphasizes the hybrid nature of Latin American societies, their shared cultures and history, their influence on other parts of the world, and the region's multi-layered relations with other countries. With a selection of courses drawn from disciplines or fields such as ethnic studies, the arts, the humanities, and the social sciences, students have flexibility to explore a wide range of subjects including ancient and modern civilizations, ethnic relations, the literary "boom" of the 1960s, doing business in present-day Latin America, and more. The minor will be useful to students planning careers in education, humanities, and the arts, the Foreign Service, international organizations, overseas corporations, and banking, as well as for those who simply desire a better understanding of Latin America. The multidisciplinary nature of the program also prepares students for further work in a number of academic fields at the graduate level.

The minor consists of a core curriculum of three courses (nine to ten units) which deal with the region as a whole from a variety of disciplinary perspectives, plus 12 to 14 units of elective upper division coursework. Not more than six units can be taken on a CR/NC basis. Students planning to take courses other than those listed below must get prior approval from the program director. Students completing the Latin American Studies minor are encouraged to participate in the study-abroad programs at SF State. Courses taken in certified SF State study-abroad programs may be substituted for the minor's requirements.

Professors
Almaguer, Barbosa, Calderon, Carillo, Cordova, Cuellar, Ferreira, Johnson, Millet, Murguia, Quesada, Rivera

Associate Professors
Darling, Garcia-Moreno, Gordy, Hennessy, Martinez

Assistant Professors
Morrison, Ramirez, Rodriguez

Lecturers
Baron, Davila, Gomez, Kury, Pereira

Latin American Studies Minor — 21–24 units
Core Courses (9–10 units)
Group A: Latin America in Historical Perspective

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH/HIST/LTNS 501</td>
<td>Latin America: The National Period</td>
<td>3</td>
</tr>
</tbody>
</table>

Group B: Social Perspectives and Politics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 520</td>
<td>Central America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>HIST/WGS 535/LTNS 533</td>
<td>History of Women in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>HIST 550</td>
<td>Social Change in Modern Latin America</td>
<td>3</td>
</tr>
<tr>
<td>IR/PSLI 322</td>
<td>Latin American Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOC 645</td>
<td>Sociology of Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>

Group C: Arts and Culture

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 455</td>
<td>Humanities of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 405</td>
<td>Culture and Civilization of Spanish America</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12–14 units)
Select two courses from each group, with no more than 9 units from any one discipline. Core courses may not be used to meet this part of the required work.

Group I: Social Perspectives, Politics, and International Relations

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 471</td>
<td>The Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>HIST 500</td>
<td>Colonial Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 524</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 528</td>
<td>History of Brazil</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 591</td>
<td>Doing Business in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>IR 306</td>
<td>U.S.-Central American Relations</td>
<td>4</td>
</tr>
<tr>
<td>LTNS 410</td>
<td>Seminar on Gender and Latinas/os</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 460</td>
<td>Central Americans of the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 467</td>
<td>Caribbeans in the U.S.: History and Heritage</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/PSDI 640</td>
<td>Sociology of the Latino Experience</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 660</td>
<td>Latina/o Politics</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 670/PSDI 408</td>
<td>Mexican Politics and Society</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 692</td>
<td>Cuba: Health, Education, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOC 481</td>
<td>Sociology of Brazil</td>
<td>3</td>
</tr>
</tbody>
</table>

Group II: Arts, Humanities, and Culture

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 375</td>
<td>Biography of a City (Mexico City)</td>
<td>3</td>
</tr>
<tr>
<td>HUM 375</td>
<td>Biography of a City (Río de Janeiro)</td>
<td>3</td>
</tr>
<tr>
<td>HUM/LTNS 520</td>
<td>North and South American Cultural Expression</td>
<td>3</td>
</tr>
<tr>
<td>JS/CWL/ENG 451</td>
<td>Jewish Literature of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS/CINE 409</td>
<td>Latina/o Cinema</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 425</td>
<td>Popular and Traditional Music of the Latina(o) Diaspora (CSL)</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 450</td>
<td>Indigenismo: Indigenous Cultures of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 475</td>
<td>Aztec Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 490</td>
<td>Latina/o Teatro Workshop</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 560</td>
<td>Contemporary Latina/o Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 532</td>
<td>Music of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 341</td>
<td>Introduction to the Reading of Literary Texts</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 543</td>
<td>Spanish American Literature: Romanticism to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 545</td>
<td>20th Century Spanish American Literature (all topics)</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 595</td>
<td>Senior Survey in Spanish or Spanish American Literature (all Spanish American topics)</td>
<td>3</td>
</tr>
</tbody>
</table>
Foreign Language Requirement
All students completing this area studies minor are required to demonstrate intermediate level competency in a language other than English, relevant to the area. This requirement may be met by completing the university entrance requirement of two years of high school language study, one year of successful college level language study, or by demonstration of equivalent competency.
LIBERAL STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Humanities & Liberal Studies

Liberal Studies Program
Humanities Building, Room 409
Phone: (415) 338–6927
Website: humanitiesliberalstudies.sfsu.edu (http://humanitiesliberalstudies.sfsu.edu)
Program Director: Cristina Ruotolo

Advising is by appointment. Contact the Liberal Studies Office to arrange an appointment.

Program Scope
The Bachelor of Arts in Liberal Studies requires 120 units for graduation. The 46 unit major has a multidisciplinary and interdisciplinary curriculum encompassing all areas of knowledge in the arts and sciences. Many employers and professional schools prefer graduates with the richly diversified education that this major provides. A liberal studies program is also recommended as preparation for students who aspire to become elementary school teachers.

Before meeting with an individual advisor, students are expected to review the information in this Bulletin and on the web by going to humanitiesliberalstudies.sfsu.edu/student-advising (http://humanitiesliberalstudies.sfsu.edu/student-advising).

Career Outlook
The Liberal Studies major prepares students for future employment in a variety of fields, including education, government or public service, the arts, management, communications, humanities and social sciences, and work involving multicultural communities. The teacher preparation emphasis provides the broad academic background necessary for teaching in an elementary classroom and as part of a student’s preparation for the CSET Multiple Subjects (California Subject Examinations for Teachers). The major is also appropriate preparation for various professional and graduate programs such as business, counseling, law, librarianship, medicine, and for disciplinary or interdisciplinary graduate programs.

Students interested in becoming elementary school teachers are strongly encouraged to choose the Liberal Studies major and to choose the recommended Teacher Preparation courses in the core, and the Teacher Preparation emphasis for their 15 units beyond the core.

• Before beginning the core courses, students should have completed ENG 214 or equivalent (e.g., AFRS 214, CWL 214, or ENG 1B at a community college).
• A course may be used for only one purpose within the major. For example, if a course is used in the core, it may not be used in the Emphasis Pattern.

Transfer Courses Included in the Liberal Studies Major
With advisor approval, courses transferred from other institutions may be used to fulfill the Core requirements of the major if they are upper division and equivalent in content to the courses required in the major. Lower and/or upper division courses transferred from other institutions may be used in the Emphasis Pattern so long as at least six units are upper division and the content of the courses is equivalent. All residence requirements stipulated in the Bulletin must be met.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and SF State units can best be applied to this requirement to ensure degree completion within 60 units.

Grading
A maximum of two courses in the major may be taken for a CR grade.

Professor
M. Ferreira

Associate Professors
Augsburg, de Barros, Hennessy

Assistant Professor
Sousanis

Lecturers
Coopman, Erickson, Frachella, Taylor

Major
• Bachelor of Arts in Liberal Studies (p. 876)

Bachelor of Arts in Liberal Studies
Liberal Studies (B.A.) – Minimum 42 Units
Note: the courses that appear below are approved for the major. In the event that approved courses are not offered, substitutions may be made on advisement. All units must be upper division.

Required Core Courses
Before beginning the core courses, students should have completed ENG 214 or equivalent (e.g. AFRS 214, CWL 214, or ENG 1B at a community college). LS 300GW introduces important concepts of interdisciplinary study and should be taken either before or concurrently with the Area Core Courses, usually no later than the junior year. Students are strongly encouraged to complete all Area Core Courses before taking LS 690, the culminating experience for the major, in the senior year.
Please note: the courses that appear below are approved for the major. In the event that approved courses are not offered, substitutions may be made on advisement.

**Introduction to Liberal Studies (3 Units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 300GW</td>
<td>Perspectives on Liberal Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Prerequisite: ENG 214 or equivalent.)</td>
<td></td>
</tr>
</tbody>
</table>

**Area I — Communication, Language, and Literature (6–7 Units)**

Select one course from the Literature list of courses, and one course from the Communication Studies list of courses.

**Literature**

Select one course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA S 322</td>
<td>Chinese American Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td>AA S 332</td>
<td>Japanese American Art and Literature</td>
<td>3</td>
</tr>
<tr>
<td>AA S 352</td>
<td>Filipina/o American Literature, Art, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>AA S 372</td>
<td>Vietnamese American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AA S 512</td>
<td>Asian American Children’s/Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>AFRS 411</td>
<td>African and African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>OWL 440</td>
<td>&quot;Typical American&quot;: Narratives of Multiculturalism in the Americas from 1492 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 398/</td>
<td>Greek American Literature</td>
<td>3</td>
</tr>
<tr>
<td>MGS 397</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 528</td>
<td>American Literature: 1914-1960</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 535</td>
<td>Literature and Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 554</td>
<td>Modern American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 555</td>
<td>The Short Story</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 583</td>
<td>Shakespeare: Representative Plays</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 584</td>
<td>Shakespeare: Selected Plays</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 614</td>
<td>Women in Literature: Authors and Characters</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 631</td>
<td>Post-Colonial Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 656</td>
<td>Greek and Roman Myth and Modern Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 655</td>
<td>Literature and the Adolescent Reader</td>
<td>3</td>
</tr>
<tr>
<td>LTNS 560</td>
<td>Contemporary Latino/a Literature</td>
<td>3</td>
</tr>
<tr>
<td>RRS/ARAB 450</td>
<td>Contemporary Arabic and Arab American Literature</td>
<td>3</td>
</tr>
<tr>
<td>WGS 541</td>
<td>Women Writers and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>WGS 548</td>
<td>Literature by U.S. Women of Color</td>
<td>3</td>
</tr>
<tr>
<td>WGS/SXS 551</td>
<td>Queer Literatures and Media</td>
<td>3</td>
</tr>
</tbody>
</table>

**Communication Studies**

Select one course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 220</td>
<td>Introduction to the Performance of Literature</td>
<td>3</td>
</tr>
<tr>
<td>COMM 230</td>
<td>Introduction to Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>COMM 250</td>
<td>Introduction to Group Discussion and Teamwork</td>
<td>3</td>
</tr>
<tr>
<td>COMM 551</td>
<td>Persuasion</td>
<td>4</td>
</tr>
<tr>
<td>COMM 552</td>
<td>Women and Words</td>
<td>4</td>
</tr>
<tr>
<td>COMM 553</td>
<td>Oral Interpretation of the First Person Voice</td>
<td>4</td>
</tr>
<tr>
<td>COMM 554</td>
<td>Oral Interpretation of Children’s Literature</td>
<td>4</td>
</tr>
<tr>
<td>COMM 559</td>
<td>Theory and Practice in Advanced Public Speaking</td>
<td>4</td>
</tr>
</tbody>
</table>

**Area II — Life Science, Physical Science, and Mathematics (6 Units)**

Select one course from Life Science and one Physical Science:

**Life Science**

Select one course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 300</td>
<td>Nature Study</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>Biology for Today’s World</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 313</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 318</td>
<td>Our Endangered Planet</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 326</td>
<td>Disease</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 327</td>
<td>AIDS: Biology of the Modern Epidemic</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 330</td>
<td>Human Sexuality (BIOL 322 is not a substitute)</td>
<td>3</td>
</tr>
<tr>
<td>LS 430</td>
<td>Future of the Forest</td>
<td>3</td>
</tr>
</tbody>
</table>

**Physical Science**

Select one course from the following (or approved alternative):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution (Prerequisite: CHEM 115)</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 310</td>
<td>The Violent Earth</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 325</td>
<td>Geology of the National Parks</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 330</td>
<td>California Water</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 335</td>
<td>Global Warming</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 360</td>
<td>California Weather Events</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 365</td>
<td>Extreme Weather in a Warming World</td>
<td>3</td>
</tr>
<tr>
<td>LS 309</td>
<td>Physical Sciences for Elementary School Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area III — Behavioral and Social Sciences (6 Units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 400</td>
<td>Social Sciences Core I</td>
<td>3</td>
</tr>
<tr>
<td>LS 401</td>
<td>and Social Sciences Core II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area IV — Creative Arts and Humanities (6 Units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 425</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>&amp; LS 426</td>
<td>and Thought and Image: Creative Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Culminating Experience (3 Units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS 690</td>
<td>Liberal Studies Senior Seminar (LS 300GW is a prerequisite)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emphasis Pattern Beyond the Core (12 Units)**

Fifteen semester units beyond the core must be taken with liberal studies advisor approval, with at least six units completed at the upper division level. Students may choose to complete an approved minor in lieu of an area of emphasis. Refer to the Liberal Studies website (humanitiesliberalstudies.sfsu.edu) and consult with a major advisor regarding possible emphases.

*Students interested in becoming elementary school teachers are strongly encouraged to choose the Teacher Preparation Emphasis which can be found at the end of the list of other emphasis patterns.*

**Area I: Communication, Language, and Literature**

- English Language: Literature, Language, and Communication
- Literature and Oral Performance
- Languages and Literatures Other Than English
  - Chinese
• Classical Languages
  • French
  • German
  • Italian
  • Japanese
  • Russian
  • Spanish

**Area II: Life Science, Physical Science, and Mathematics**
• Earth and Space Science
• Environmental Science
• Life Science
• Mathematics
• Physics and Astronomy

**Area III: Behavioral and Social Sciences**
• Anthropology
• Economics
• Ethnic Studies
• Geography
• Health, Kinesiology, and Recreation
• History
• International Relations
• Political Science
• Urban Studies

**Area IV: Creative Arts and Humanities**
• Creative Arts
• Humanities
• Philosophy
• Philosophy and Religion

**Integrated Studies**
• Ancient Mediterranean Civilizations
• California Studies
• Early Childhood Education
• Gender, Culture, and Representation
• Jewish Studies
• Multidisciplinary Ethnic Studies

**Teacher Preparation Emphasis**
Future elementary school teachers are expected to be familiar with all of the subject matter taught in schools. Students seeking the Multiple Subject Credential must pass the CSET: Multiple Subjects examination. To support your preparation for the CSET, students are advised choose the Teacher Preparation emphasis for your courses beyond the core.

Students interested in becoming elementary or special education teachers should also attend an information meeting given by the Credential and Graduate Services Center. At the meeting, students learn all of the credential program admission requirements. Call (415) 405-3594 for more information. General information about teaching careers may be found at the Credential and Graduate Services Center in BH 244.

**Elementary Teaching Preparation Emphasis (15 units)**
MATH 165 Concepts of the Number System 6
& MATH 565 and Concepts of Geometry, Measurement, and Probability (or approved alternative)
Select three of the following or approved alternative: 9
E ED 603 Promoting Young Children’s Social and Emotional Development
EDUC 450 Art and Learning
HIST 114 World History to 1500
KIN 401 Elementary School Physical Education, K-5
MUS 601 Music for Children
TH A 451 Storytelling and Folk Literature

**Complementary Studies**
All students completing a B.A. degree must satisfy the 12 unit Complementary Studies requirement. Students who complete the Liberal Studies major will automatically satisfy complementary studies with 12 units of courses outside of the Liberal Studies prefix (LS) and not cross-listed with LS. Students must consult with an advisor to identify the courses that will be used to satisfy the requirement.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>
This degree program is an approved pathway ("similar" major) for students earning the ADT in Elementary Teacher Education

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer:
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)
Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.

Transfer Student Roadmap (2 Year)
For students with an AA-T in Elementary Teacher Education. This roadmap opens in a new tab. (p. 885)
## Bachelor of Arts in Liberal Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 42

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
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<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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</tr>
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<td><strong>Second Semester</strong></td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴</td>
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<td>3-4</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ²</td>
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<td>3</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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</tr>
<tr>
<td>or SF State Studies or University Elective ³</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴</td>
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<td>3-4</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
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<tr>
<td>or College Level Biology Course</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ³</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15</td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>LS 300GW</td>
<td>Perspectives on Liberal Studies · GWAR</td>
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<tr>
<td>Literature (3 units) ⁵</td>
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<tr>
<td>Communication Studies (3-4 units) ⁶</td>
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<td>3-4</td>
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<tr>
<td>Emphasis (12-15 units) – Take Two ⁷</td>
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<tr>
<td><strong>Units</strong></td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>LS 400 &amp; LS 401</td>
<td>Social Sciences Core I and Social Sciences Core II</td>
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<tr>
<td>Life Science (3 units) ⁸</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Science (3 units) ⁹</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<td><strong>Seventh Semester</strong></td>
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<tr>
<td>HUM 425 &amp; LS 426</td>
<td>Thought and Image: Humanities and Thought and Image: Creative Arts</td>
<td>6</td>
</tr>
</tbody>
</table>
### Bachelor of Arts in Liberal Studies Roadmap

<table>
<thead>
<tr>
<th>Emphasis (12-15 units)</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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#### Eighth Semester

<table>
<thead>
<tr>
<th>Liberal Studies Senior Seminar</th>
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<tbody>
<tr>
<td>Emphasis (12-15 units) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
</tr>
</tbody>
</table>

| Units | 15 |

| Total Units | 120-123 |

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   All students completing a B.A. degree must satisfy the 12 unit Complementary Studies requirement. Students who complete the Liberal Studies major will automatically satisfy complementary studies with 12 units of courses outside of the Liberal Studies prefix (LS) and not cross-listed with LS. Students must consult with an advisor to identify the courses that will be used to satisfy the requirement.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. **Literature**

   - AA S 322 Chinese American Language and Literature (3 units)
   - AA S 332 Japanese American Art and Literature (3 units)
   - AA S 352 Filipina/o American Literature, Art, and Culture (3 units)
   - AA S 372 Vietnamese American Literature (3 units)
   - AA S 512 Asian American Children’s/Adolescent Literature (3 units)
   - AFRE 411 African and African American Literature (3 units)
   - CWL 440 "Typical American": Narratives of Multiculturalism in the Americas from 1492 to the Present (3 units)
   - ENG 398 Greek American Literature (3 units)
   - ENG 528 American Literature: 1914-1960 (3 units)
   - ENG 535 Literature and Ecology (3 units)
   - ENG 554 Modern American Novel (3 units)
   - ENG 555 The Short Story (3 units)
   - ENG 583 Shakespeare: Representative Plays (3 units)
   - ENG 584 Shakespeare: Selected Plays (3 units)
   - ENG 614 Women in Literature: Authors and Characters (3 units)
   - ENG 631 Post-Colonial Literature in English (3 units)
   - ENG 636 Greek and Roman Myth and Modern Literature (3 units)
   - ENG 655 Literature and the Adolescent Reader (3 units)
   - LTNS 560 Contemporary Latina/o Literature (3 units)
   - RRS 450 Contemporary Arabic and Arab American Literature (3 units)
   - WGS 541 Women Writers and Social Change (3 units)
   - WGS 548 Literature by U.S. Women of Color (3 units)
   - WGS 551 Queer Literatures and Media (3 units)

6. **Communication Studies**

   - COMM 220 Introduction to the Performance of Literature (3 units)
   - COMM 230 Introduction to Argumentation and Debate (3 units)
   - COMM 250 Introduction to Group Discussion and Teamwork (3 units)
   - COMM 551 Persuasion (4 units)
   - COMM 552 Women and Words (4 units)
   - COMM 553 Oral Interpretation of the First Person Voice (4 units)
   - COMM 554 Oral Interpretation of Children’s Literature (4 units)
   - COMM 559 Theory and Practice in Advanced Public Speaking (4 units)
Emphasis Pattern Beyond the Core (15 Units)
Fifteen semester units beyond the core must be taken with liberal studies advisor approval, with at least six units completed at the upper division level. Students may choose to complete an approved minor in lieu of an area of emphasis. Refer to the Liberal Studies website (humanitiesliberalstudies.sfsu.edu) and consult with a major advisor regarding possible emphases.

Students interested in becoming elementary school teachers are strongly encouraged to choose the Teacher Preparation Emphasis which can be found at the end of the list of other emphasis patterns.

Area I: Communication, Language, and Literature
- English Language: Literature, Language, and Communication
- Literature and Oral Performance
- Languages and Literatures Other Than English
  - Chinese
  - Classical Languages
  - French
  - German
  - Italian
  - Japanese
  - Russian
  - Spanish

Area II: Life Science, Physical Science, and Mathematics
- Earth and Space Science
- Environmental Science
- Life Science
- Mathematics
- Physics and Astronomy

Area III: Behavioral and Social Sciences
- Anthropology
- Economics
- Ethnic Studies
- Geography
- Health, Kinesiology, and Recreation
- History
- International Relations
- Political Science
- Urban Studies

Area IV: Creative Arts and Humanities
- Creative Arts
- Humanities
- Philosophy
- Philosophy and Religion

Integrated Studies
- Ancient Mediterranean Civilizations
- California Studies
- Early Childhood Education
- Gender, Culture, and Representation
- Jewish Studies
- Multidisciplinary Ethnic Studies

Teacher Preparation Emphasis
Future elementary school teachers are expected to be familiar with all of the subject matter taught in schools. Students seeking the Multiple Subject Credential must pass the CSET: Multiple Subjects examination. To support your preparation for the CSET, students are advised choose the Teacher Preparation emphasis for your courses beyond the core.

Students interested in becoming elementary or special education teachers should also attend an information meeting given by the Credential and Graduate Services Center. At the meeting, students learn all of the credential program admission requirements. Call (415) 405-3594 for more information. General information about teaching careers may be found at the Credential and Graduate Services Center in BH 244.

Elementary Teaching Preparation Emphasis (15 units)
MATH 165 Concepts of the Number System (3 units)
and MATH 565 Concepts of Geometry, Measurement, and Probability (3 units)
Select three of the following or approved alternative:
ED 603 Promoting Young Children’s Social and Emotional Development (3 units)
EDUC 450 Art and Learning (3 units)
8  **Life Science**  
- BIOL 300 Nature Study (3 units)  
- BIOL 310 Biology for Today's World (3 units)  
- BIOL 313 Principles of Ecology (3 units)  
- BIOL 318 Our Endangered Planet (3 units)  
- BIOL 326 Disease! (3 units)  
- BIOL 327 AIDS: Biology of the Modern Epidemic (3 units)  
- BIOL 330 Human Sexuality (3 units)  
- LS 430 Future of the Forests (3 units)

9  **Physical Science**  
- CHEM 380 Chemistry Behind Environmental Pollution (3 units)  
- ERTH 310 The Violent Earth (3 units)  
- ERTH 325 Geology of the National Parks (3 units)  
- ERTH 330 California Water (3 units)  
- ERTH 335 Global Warming (3 units)  
- ERTH 360 California Weather Events (3 units)  
- ERTH 365 Extreme Weather in a Warming World (3 units)  
- LS 309 Physical Sciences for Elementary School Teachers (3 units)
Bachelor of Art in Liberal Studies: Elementary Teaching Preparation Emphasis – ETE Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Elementary Teacher Education. Six units in the major (HIST 114, MATH 165) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>HUM 425 or LS 426</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>LS 300GW</td>
<td>Perspectives on Liberal Studies - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Core: Area I Communication Studies – Select One</td>
<td>Oral Interpretation of the First Person Voice</td>
<td>4</td>
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<tr>
<td>COMM 553</td>
<td>Oral Interpretation of Children’s Literature</td>
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<tr>
<td>or Approved Alternative</td>
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</tr>
<tr>
<td>Major Core: Area III Behavioral and Social Sciences: Psy/Family Stud/Hum Dev – See List</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) 1</td>
<td>3</td>
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<tr>
<td>or University Elective if A4 was met before transfer</td>
<td>3</td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>Biology for Today’s World 1</td>
<td>3</td>
</tr>
<tr>
<td>HUM 425 or LS 426</td>
<td>Thought and Image: Humanities</td>
<td>3</td>
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<tr>
<td>or Thought and Image: Creative Arts</td>
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<tr>
<td>Major Core: Area III Behavioral and Social Sciences: Hist/Geog/California – See List</td>
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<tr>
<td>Major Core: Area I Literature</td>
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<td>University Elective</td>
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<td><strong>Third Semester</strong></td>
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<td>LS 309</td>
<td>Physical Sciences for Elementary School Teachers</td>
<td>3</td>
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<tr>
<td>MATH 565</td>
<td>Concepts of Geometry, Measurement, and Probability</td>
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<td>Major Emphasis – See List</td>
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<tr>
<td>University Electives – Take Two</td>
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<td>6</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td>15</td>
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<tr>
<td>LS 690</td>
<td>Liberal Studies Senior Seminar</td>
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<td><strong>Total Units</strong></td>
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<td>60</td>
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</table>

1. ENG 214 or equivalent course must be taken before LS 300GW. Students who need to take ENG 214/A4 must take LS 300GW in the second semester in place of University elective.
2. BIOL 310 and PSY 330 also satisfy Upper Division GE: UD-B.
3. AA S 323, AA S 333, AA S 353, AA S 510, CFS 320, E ED 603, ENVS 600, HIST 450, LS 401, RRS 625, WGS 515 also satisfy Upper Division GE: UD-D.
4. EDUC 450 and TH A 451 also satisfy UD-C.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–12 Units**

US History: US/CA/Local Government satisfied before transfer.

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer. See note 1 above.
- Upper division GE, areas B, C and D (9 units): See grid above for courses that satisfy both UD GE and major requirements.
- Students entering this major with the AA-T in Elementary Education are not required to fulfill SF State Studies requirements; also, because of the interdisciplinary nature of the major, students automatically fulfill the Complementary Studies requirement.

**Liberal Studies Major: 40 Units**

HIST 114, MATH 165 met in transfer – applied to Emphasis.

- Core (31 upper division units)
- Emphasis (9 upper division units)

**University Electives: 17 or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.

**Major Core (Area III Behavioral and Social Sciences: Psy/Family Stud/Hum Dev)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AA S 323</td>
<td>Chinese American Identities ³</td>
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</tr>
<tr>
<td>AA S 333</td>
<td>Japanese American Identities ³</td>
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<td>AA S 353</td>
<td>Filipina/o American Identities ³</td>
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<td>AFRS 525</td>
<td>Black Child Development</td>
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<td>CFS 320</td>
<td>Children and Families ³</td>
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<td>HIST 469</td>
<td>American Childhoods: Past and Present</td>
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<td>LS 400</td>
<td>Social Sciences Core I</td>
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<td>PSY 330</td>
<td>Child Development ²</td>
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<td>RRS 625</td>
<td>Mixed Race Studies: A Comparative Focus ³</td>
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<tr>
<td>WGS 515</td>
<td>Gender, Race, and Reproduction ³</td>
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**Major Core (Area III Behavioral and Social Sciences: Hist/Geog/California)**

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<th>Course</th>
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<tr>
<td>AA S 510</td>
<td>Asian Americans in California ³</td>
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<tr>
<td>AFRS 312</td>
<td>Califia: The Black Heritage of California</td>
<td>3</td>
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<tr>
<td>AIS 410</td>
<td>Perspectives of Native California Indians</td>
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<tr>
<td>ENVS/EGO 600</td>
<td>Environmental Problems and Solutions ³</td>
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<tr>
<td>HIST 450</td>
<td>History of California ³</td>
<td>3</td>
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<tr>
<td>LS 401</td>
<td>Social Sciences Core II ³</td>
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<tr>
<td>LTNS 315</td>
<td>Latina/os in California</td>
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**Major Emphasis**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>EDUC 450</td>
<td>Art and Learning ⁴</td>
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<tr>
<td>E ED 603</td>
<td>Promoting Young Children’s Social and Emotional Development ³</td>
<td>3</td>
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<td>E ED 655</td>
<td>Hands on Undergraduate Science Education Experience</td>
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<td>KIN 401</td>
<td>Elementary School Physical Education, K-5</td>
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<td>MUS 601</td>
<td>Music for Children</td>
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<tr>
<td>TH A 451</td>
<td>Storytelling and Folk Literature ⁴</td>
<td>3</td>
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</tbody>
</table>
MIDDLE EAST AND ISLAMIC STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris
Coordinator: Lucia Volk
Humanities Building, Room 576
Phone: (415) 338-2468
Email: lvolk@sfsu.edu

Program Scope
The Middle East and Islamic Studies minor is a multidisciplinary minor designed to provide undergraduate students with a broad understanding of the history, politics, and culture of the Middle East and Islamic world. The students are required to fulfill both core and elective requirements, designed to give a background of the complexity and diversity of the region as well as offer more specific, in-depth studies of select issues of the region. This program covers regions and peoples from or in the Middle East from the founding of Islam in the seventh century to the present. In concert with the “Islamic Studies” aspect of this program, this minor also extends beyond the Middle East to those cultures, societies, and areas that are associated with the historical and current spread of Islam. Students can select from a variety of courses across multiple disciplines, including history, religion, politics, culture, art, music, language, and literature.

The minor is useful to students planning careers in politics and government, business, education, international organizations, journalism, and art, as well as for those who simply desire a better understanding of the Middle East and Islam. The multidisciplinary nature of the program also prepares students for further study in a number of academic fields at the graduate level.

The Middle East and Islamic Studies Minor consists of a core curriculum of three courses that deal with the region as a whole from a variety of disciplinary perspectives, plus three upper division courses taken upon advisement.

Professors
Astren, Azadpur, Banerjee, Kaplan, Modirzadeh, Monshipouri, Volk, Watts

Associate Professors
Behrooz, Bertram, Chekuri, Ellis, Ibrahim, Kavuri-Bauer, Khanmohamadi, Salama

Assistant Professors
Ara, Savci

Middle East and Islamic Studies Minor — 18–22 units
Core (9–11 units)
Complete at least nine units in the core by taking one course from Section A, one course from Section B, and a third course from either section. MEIS 300 and MEIS 301 may satisfy either Core Section A or B.

Any core class taken beyond the required units can be counted towards the required elective units.

Section A: History and Politics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 604</td>
<td>Islamic World I: 500 - 1500</td>
</tr>
<tr>
<td>HIST 605</td>
<td>Islamic World II: 1500 - present</td>
</tr>
<tr>
<td>I R 324</td>
<td>Middle East and North Africa in International Relations</td>
</tr>
<tr>
<td>I R 335</td>
<td>Muslim Societies in Transnational Perspective</td>
</tr>
<tr>
<td>PLSI 410</td>
<td>Middle East Politics</td>
</tr>
</tbody>
</table>

Section B: Arts and Culture

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 319</td>
<td>Cultures of the Middle East and North Africa</td>
</tr>
<tr>
<td>ART 417</td>
<td>The Art and Architecture of Islam</td>
</tr>
<tr>
<td>HUM 361</td>
<td>Cultural Expression in Islam</td>
</tr>
<tr>
<td>HUM 496</td>
<td>Islam and the Poetics of Space</td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
</tr>
</tbody>
</table>

Section A or B:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEIS 300</td>
<td>Foundations in Middle East and Islamic Studies</td>
</tr>
<tr>
<td>MEIS 301</td>
<td>Islam: Interpretation and Practice</td>
</tr>
</tbody>
</table>

Electives (9–11 units)
In addition to the three core courses above, take a minimum of three additional courses as electives. Courses that are used to satisfy core requirements may not also be used as electives.

Select at least one course from Part I and at least one course from Part II. The third elective may be taken from either part I or II:

Part I: History and Politics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 583</td>
<td>Hindus and Muslims</td>
<td>3</td>
</tr>
<tr>
<td>HIST 584</td>
<td>India and the British Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 604</td>
<td>Islamic World I: 500 - 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 605</td>
<td>Islamic World II: 1500 - present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 606</td>
<td>History of Iran and Afghanistan 1500 - Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 607</td>
<td>Imperialism and Nationalism in the Recent Near East</td>
<td>3</td>
</tr>
<tr>
<td>HIST 644</td>
<td>Proseminar in World History</td>
<td>3</td>
</tr>
<tr>
<td>I R 323</td>
<td>The Persian Gulf in International Relations</td>
<td>4</td>
</tr>
<tr>
<td>I R 324</td>
<td>Middle East and North Africa in International Relations</td>
<td>4</td>
</tr>
<tr>
<td>I R 326</td>
<td>South and Southeast Asia Foreign Relations</td>
<td>4</td>
</tr>
<tr>
<td>I R 335</td>
<td>Muslim Societies in Transnational Perspective</td>
<td>4</td>
</tr>
<tr>
<td>I R/MEIS 433</td>
<td>Model Arab League</td>
<td>4</td>
</tr>
<tr>
<td>JS/I R/PLSI 430</td>
<td>Israeli Democracy: Politics, Institutions, and Society</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 410</td>
<td>Middle East Politics</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 420</td>
<td>State-Society Relations in the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>PLSI/MEIS 431</td>
<td>Constructing Kurdistan</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Part II: Arts and Culture

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 319</td>
<td>Cultures of the Middle East and North Africa</td>
<td>3</td>
</tr>
<tr>
<td>ARAB 102</td>
<td>Second Semester Arabic</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 103</td>
<td>Third Semester Arabic</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 104</td>
<td>Fourth Semester Arabic</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 206</td>
<td>Intermediate Conversation</td>
<td>3</td>
</tr>
<tr>
<td>ARAB 300</td>
<td>Reading Qur’anic Arabic</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ARAB 600</td>
<td>Modern Arabic Literature and Film in English</td>
<td>3</td>
</tr>
<tr>
<td>ARAB 650</td>
<td>Modern Arabic Fiction in English</td>
<td>3</td>
</tr>
<tr>
<td>ART 417</td>
<td>The Art and Architecture of Islam</td>
<td>3</td>
</tr>
<tr>
<td>CWL/HUM 424</td>
<td>Multicultural Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>OWL 430</td>
<td>Heroic Tales of the Mediterranean</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 102</td>
<td>Second Semester Modern Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 201</td>
<td>Third Semester Modern Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HEBR 202</td>
<td>Fourth Semester Modern Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>HUM 361</td>
<td>Cultural Expression in Islam</td>
<td>3</td>
</tr>
<tr>
<td>HUM 375</td>
<td>Biography of a City (Istanbul)</td>
<td>3</td>
</tr>
<tr>
<td>HUM/JS 377</td>
<td>Jerusalem</td>
<td>3</td>
</tr>
<tr>
<td>HUM 496</td>
<td>Islam and the Poetics of Space</td>
<td>3</td>
</tr>
<tr>
<td>JS/CINE 408</td>
<td>Israeli Cinema</td>
<td>3</td>
</tr>
<tr>
<td>JS/HUM/PHIL</td>
<td>Judaism, Christianity, and Islam</td>
<td>3</td>
</tr>
<tr>
<td>501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 530</td>
<td>Musics of the Middle East and India</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 517</td>
<td>Islamic Mysticism</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 102</td>
<td>Second Semester Persian</td>
<td>5</td>
</tr>
<tr>
<td>PRSN 103</td>
<td>Third Semester Persian</td>
<td>5</td>
</tr>
<tr>
<td>PRSN 104</td>
<td>Fourth Semester Persian</td>
<td>5</td>
</tr>
<tr>
<td>PRSN 206</td>
<td>Basic Persian Conversation</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 260</td>
<td>Persian Culture and Civilization in English</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 350</td>
<td>Advanced Persian</td>
<td>3</td>
</tr>
<tr>
<td>RRS/ARAB 450</td>
<td>Contemporary Arabic and Arab American Literature</td>
<td>3</td>
</tr>
<tr>
<td>WGS 565</td>
<td>Muslim Feminisms</td>
<td>3</td>
</tr>
</tbody>
</table>

**Foreign Language Requirement**

Students are strongly encouraged to develop proficiency in a Middle Eastern language or a language pertaining to the Islamic world and to commit to more than one semester of language studies. Therefore, second-semester language courses and higher will count towards elective units. Each student will discuss how to incorporate language into their minor during advising sessions.

**Study-Abroad Courses**

Students completing the Middle East and Islamic Studies minor are strongly encouraged to participate in study-abroad programs, whether through the CSU system or another approved study abroad program. SF State's bilateral exchange with Koç University in Istanbul is particularly suited for MEIS minors. Please attend OIP's informational sessions and then see a MEIS advisor.
# MODERN GREEK STUDIES

## College of Liberal & Creative Arts
Dean: Andrew Harris

## Modern Greek Studies Program
HUM 577
Phone: (415) 338–1892
Acting Director: David Leitao
Associate Director: Alexandra Pappas

## Program Scope
The Minor in Modern Greek Studies is an interdisciplinary program for students seeking greater knowledge of contemporary Greek language, literature, history, and culture. The program is designed to provide the student with an understanding of Modern Greek language, culture, and society in relation to its earlier antecedents, the ancient Greek and Byzantine civilizations.

The minor complements academic majors for students planning careers in literary and ethnic studies; primary, secondary, and tertiary education; anthropology; history; linguistics; classics; journalism; museum studies, political science; sociology; translation; the arts; the foreign service; international relations; and business, as well as those who desire a better understanding of contemporary Greece, the Greek American experience, and the Hellenic diaspora. The interdisciplinary scope of the program also introduces the student for further study in any number of academic fields at the graduate level. Courses in Modern Greek Studies can also fulfill the B.A. requirements in Complementary Studies.

The interdisciplinary Minor in Modern Greek Studies consists of 17–19 units. A core of two four-unit courses is required, and an elective group of three additional courses completes the minor.

## Professor
Klironomos

### Modern Greek Studies Minor – 17–19 units

**Core (8 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGS 150</td>
<td>Modern Greek I</td>
<td>4</td>
</tr>
<tr>
<td>MGS 151</td>
<td>Modern Greek II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives (9–11 units)**

**Greece from the Early Modern Period to the Present**

Select two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGS/ANTH 316</td>
<td>Contemporary Culture of Greece</td>
<td>3</td>
</tr>
<tr>
<td>MGS/HIST 350</td>
<td>Greece and the Balkans</td>
<td>3</td>
</tr>
<tr>
<td>MGS/HIST 351</td>
<td>Venetians and Ottomans in the Eastern Mediterranean and Greece</td>
<td>3</td>
</tr>
<tr>
<td>MGS/HIST 352</td>
<td>From Glory to Debt: Greece from the 19th to the 21st Centuries</td>
<td>3</td>
</tr>
<tr>
<td>MGS 365</td>
<td>Modern Greek III</td>
<td>4</td>
</tr>
<tr>
<td>MGS/HUM 378</td>
<td>Athens</td>
<td>3</td>
</tr>
<tr>
<td>MGS/ENG 380</td>
<td>British and American Travellers to Greece</td>
<td>3</td>
</tr>
<tr>
<td>MGS 397/ENG 398</td>
<td>Greek American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGS/CWL/ENG 452</td>
<td>Forster, Durrell, and Cavafy</td>
<td>3</td>
</tr>
<tr>
<td>MGS/C W/CWL 465</td>
<td>Modern Greek Poetry in Comparative Perspective</td>
<td>3</td>
</tr>
<tr>
<td>MGS 470</td>
<td>Modern Greek IV</td>
<td>4</td>
</tr>
<tr>
<td>MGS/CW 497</td>
<td>Modern Greek Literature</td>
<td>3</td>
</tr>
<tr>
<td>MGS 555</td>
<td>Introduction to Modern Greek Literary Texts</td>
<td>3</td>
</tr>
</tbody>
</table>

### Historical Antecedents

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGS/CLASS 510/HIST 326</td>
<td>The Byzantine Empire</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 410/HUM 401</td>
<td>Ancient Greek Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLAR 420/ART 401</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>Archaic and Classical Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 321</td>
<td>Hellenistic Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 328</td>
<td>Early Christian Church to 313</td>
<td>3</td>
</tr>
<tr>
<td>HIST 329</td>
<td>Early Christian Church: 313-787</td>
<td>3</td>
</tr>
</tbody>
</table>

Some courses are offered on a rotating basis. Students should consult with an advisor regarding their availability. Additional courses may also be taken as approved by the advisor for the minor.
MODERN LANGUAGES AND LITERATURES

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338–1421
Website: mll.sfsu.edu (http://mll.sfsu.edu)
Chair: Mohammad Salama

Program Scope

Bachelor of Arts
The Department of Modern Languages and Literatures offers courses leading to the Bachelor of Arts in Chinese, French, German, Italian, Japanese, and Spanish. The department also offers minors in these languages and a minor in Russian. Programs are designed for students who are planning to use foreign languages in professional careers, as well as for students who wish to acquire an appreciation of the cultures of other peoples. On offer are courses in language, conversation, composition, reading, linguistics, culture, and literature. Some of the programs offer courses in business and translation-interpretation, and literature and culture courses in English.

Students who have had foreign language experience before enrolling at San Francisco State University should consult with an adviser in the specific language program for placement in the proper course in which they can receive credit.

A multimedia foreign language laboratory is open to all students enrolled in any class in the department. Basic level courses usually require preparation using audio and video resources and web applications located in the multimedia language laboratory.

Major
The Bachelor of Arts requirements for each modern language is different. For specifics, please check each language program’s bulletin description. It is suggested also that students intending to major in a modern language consult with an adviser in the Department of Modern Languages and Literatures early enough to assure proper scheduling of essential courses.

Minor
Students wishing to take a minor in a modern language must complete between 18 and 24 units of lower and/or upper division courses – the requirements for which vary with each language program. For specifics, please check the language program’s bulletin description or consult with an individual language program adviser.

Upper division courses in the foreign language programs are, in general, conducted in the language under study.

Master of Arts
The department offers the Master of Arts in Chinese, French, German, Italian, Japanese, and Spanish. The various master’s programs provide advanced instruction in culture, language, and literature. A limited number of graduate teaching associate positions are available for students engaged in graduate study in the programs. The M.A. programs are designed to prepare students for a variety of careers. M.A. graduates often become teachers in private or public secondary schools, in community colleges, or after completing doctoral studies, in universities.

Admission to Programs
Students seeking admission to a master of arts program must have completed an undergraduate major comparable to the major in the appropriate language and literature at San Francisco State University.

Applicants without such a major may be admitted conditionally after developing, through consultation with advisors, a program of studies to establish the equivalent of that major. Courses prescribed for equivalency may not be credited toward the master of arts program.

Students in all Master of Arts programs are required to have a GPA of at least 3.0 in their undergraduate major.

Advancement to Candidacy
In addition to meeting all the general university requirements, students prior to advancement to candidacy must:

- Meet all conditions required by the language of concentration.
- Where required, complete with a grade of A or B the course MLL 701 Seminar in Academic Writing and Research Methodology.
- Demonstrate written English proficiency as required by each language program. Both native and non-native speakers of English must meet this requirement.
- Demonstrate oral and written proficiency in the language of concentration.

If students are unable to meet the above requirements for advancement to candidacy, they may be advised to enroll in additional courses prior to being considered for candidacy. In such cases, the courses will not be credited toward the master’s degree.

Demonstration of Exit-Level Language Proficiency
Exit-level proficiency in the language studied is demonstrated by satisfactory completion of written and oral comprehensive examinations, or in some language programs, by completion of a research project or masters thesis. See language program bulletin description for specifics.

International Programs
For undergraduate majors or minors, the department recommends an overseas experience of academic and cultural studies. Students who participate in the International Programs (p. 183) of the California State University may undertake an academic year at certain designated major institutions of higher learning located outside the United States. All students in the overseas language programs should consult with an adviser in the specific language to ensure that courses taken abroad can be applied to the major, the minor, or the degree at San Francisco State University. For the Chinese, French, German, Italian, Japanese, and Spanish B.A. programs, at least half of the units required for the major must be taken at the home campus. Similarly, for the minor, at least half of the units required must be taken at the home campus. There may also be limits in the other language programs. For graduate students in the German and Italian M.A. programs, a maximum of 9 units from recognized study abroad programs will be accepted for the degree. For graduate students in the Chinese, French, Japanese, and Spanish M.A. programs, a maximum of 12 units will be accepted for the degree.
Special Courses
In addition to the languages listed above, courses in Russian, Arabic, and Persian language, literature, and culture, as well as a Minor in Persian Studies, is also available to students. Students may also use their language coursework towards area studies minors such as the Minor in Pacific Asian Studies, the Minor in Middle East and Islamic Studies, and the minor in European Studies.

Career Outlook
Some careers require a foreign language as a primary skill. For those employed in teaching foreign languages, culture, and literature, and for those who work as interpreters and translators, a high degree of fluency or near-native competency is required. On the other hand, there are a great number of career alternatives open to people who possess good competency in one or more foreign languages. Local and state agencies as well as the federal government (such as the State Department, the Department of Defense, the Immigration and Naturalization Service, the Peace Corps) often have openings for people with language skills. Further employment possibilities are in multinational companies with significant global operations (international marketing and accounting firms, international banking, and other international business), advertising, journalism, publishing, communications, and information services, media and entertainment, travel and tourism, the hotel and restaurant industry, health care, as well as in the arts. Competency in one or more foreign languages will open the door to many exciting careers.

Programs
- Chinese (p. 892)
- French (p. 910)
- German (p. 917)
- Italian (p. 923)
- Japanese (p. 929)
- Persian (p. 936)
- Russian (p. 937)
- Spanish (p. 938)
Modern Languages and Literatures—Chinese

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338-1421
Website: mll.sfsu.edu/chinese-program (http://mll.sfsu.edu/chinese-program)

Chair: Mohammad Salama
Program Coordinator: Chris Wen-Chao Li
Undergraduate Advisor: Chris Wen-Chao Li, Charles Egan, Frederik Green, Yang Xiao-Desai
Graduate Advisor: Chris Wen-Chao Li
Flagship Program Director: Charles Egan
Flagship Program Assistant Director: Frederik Green

Program Scope
Founded in 1959, the Chinese Program at San Francisco State University provides comprehensive degree programs at both the undergraduate and graduate levels. For all major and minor options, the Chinese Program offers electives taught in both English and Chinese which provide insight into one of the world’s oldest civilizations and inspire the student to view the modern world from alternative perspectives. Courses on modern literature and film, taught in Chinese, reflect the dynamic transformations of contemporary Chinese society and culture. Training in the fundamentals of linguistics complements program goals by revealing the underlying structures of language. To prepare students as fully as possible for future challenges, the Chinese Program balances traditional academic offerings with practical courses such as Business Chinese, Media Chinese, and Web Chinese, which equip students with career-related language skills.

The Bachelor of Arts in Chinese is divided into three separate concentrations: Chinese Language, designed for students with little or no background in Chinese language; Chinese Literature and Linguistics, aimed at native and near-native speakers of Chinese language; and Flagship Chinese Language, a federally funded honors program.

The Minor in Chinese Language is designed for beginning language learners and is focused on the buildup of proficiency in the Modern Standard Language.

The Minor in Chinese Literature and Linguistics is designed for native and near-native speakers and requires coursework in advanced language, classical language, linguistics, literature, culture, and oratory.

The Master of Arts in Chinese provides advanced training in the areas of literature, linguistics, and pedagogy, building a solid foundation for further study and language-related careers. Many of our M.A. graduates advance to study and research at the doctoral level, and others develop skills for China-related careers, including teaching Chinese as a second language, international business and law, and translation and interpretation.

Professors
Egan, Li

Assistant Professors
Green, Xiao-Desai

Lecturers
Tsao, Liou, Phung

Majors
• Bachelor of Arts in Chinese: Concentration in Chinese Language (p. 892)
• Bachelor of Arts in Chinese: Concentration in Chinese Literature & Linguistics (p. 898)
• Bachelor of Arts in Chinese: Concentration in Flagship Chinese Language (p. 903)

Minors
• Minor in Chinese Language (p. 908)
• Minor in Chinese Literature and Linguistics (p. 908)

Masters
• Master of Arts in Chinese (p. 908)

Bachelor of Arts in Chinese: Concentration in Chinese Language

• Students will satisfy the University Graduation Writing Assessment Requirement (GWAR) by taking one GWAR offering from the Chinese Program or Department of Modern Languages and Literatures. Current GWAR offerings include CHIN 601GW, CHIN 611GW, CHIN 612GW and MLL 400GW.
• Prior to submitting an application for graduation, candidates for the Bachelor of Arts degree in Chinese must present evidence of having completed a Culminating Experience Project. The Culminating Experience Project can be completed through one of three options:
  a. Standardized Test:
     The student shall submit evidence of having passed the Hanyu Shuiping Kaoshi (HSK), the Test of Chinese as a Foreign Language (TOCFL), or the ACTFL Oral Proficiency Interview (OPI) for Mandarin Chinese at the appropriate level. The following grade levels are treated as passing:
     • Hanyu Shuiping Kaoshi (HSK): Level 4 or higher
     • Test of Chinese as a Foreign Language (TOCFL): Level 3 or higher
     • Oral Proficiency Interview (OPI): Advanced low or higher
  b. Writing Portfolio:
     The student shall submit a writing portfolio with evidence of advanced level academic and/or professional writing in both Chinese and English. The portfolio must contain at least one work of Chinese language academic or professional writing developed out of a writing assignment submitted for credit in an upper division course taught in Chinese, and one work of English language academic or professional writing developed out of a writing assignment accepted for credit in a GWAR course.
  c. Flagship Capstone:
     The Flagship Capstone option is available only to students accepted into the Chinese Flagship Program. Students in the Chinese Flagship Program must choose the Flagship...
Capstone Option, which consists of a "Capstone Year" abroad, to be implemented once the student has reached proficiency benchmarks set by the Language Flagship and has been recommended by the Council of Chinese Flagship Directors.

**Bachelor of Arts in Chinese: Concentration In Chinese Language**

The Concentration in Chinese Language is designed for beginning language learners with little or no background in Chinese Language. The program places emphasis on the building of proficiency in Mandarin Chinese (putonghua/gyuoy) and an appreciation and understanding of literature and culture.

*Note:* Native speakers of Chinese and international students who have completed secondary and/or tertiary education in Chinese language in a Chinese-speaking country are discouraged from choosing this concentration.

**Chinese (B.A.): Concentration In Chinese Language – 44 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 101</td>
<td>First Semester Chinese (High school prerequisite)</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 102</td>
<td>Second Semester Chinese (High school prerequisite)</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 103</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 303</td>
<td>Intermediate Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 311</td>
<td>Conversation and Reading</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 312</td>
<td>Speech and Writing</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 507</td>
<td>Traditional Chinese Culture</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 600</td>
<td>Topics in Chinese Language, Literature, and Culture in English</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 601GW</td>
<td>The Poetic Tradition - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 602</td>
<td>The Narrative Tradition in English</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 611GW</td>
<td>The Revolutionary Tradition in Modern Chinese Literature - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 612GW</td>
<td>Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>HUM 530</td>
<td>Chinese Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

**GWAR Course (3 units)**

if not chosen from the 600 level courses above or upper division elective in Chinese or related area (upon advising)

**Complementary Studies**

Required of all candidates for the Bachelor of Arts degree in Chinese are 12 units of Complementary Studies, which must come from courses bearing a prefix other than CHIN, and not cross-listed with CHIN.

Complementary Studies for the Chinese major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Chinese (may include up to 3 units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad, SF State Bilateral, Chinese Flagship, and SLI Translation-Interpretation programs);
3. 12 units of course work taken as part of a second major, a minor or a certificate;
4. 12 units of course work in related disciplines with the approval of a Chinese Program advisor.

Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of greater China, East Asia, or Asian Americans.

Where a course with a non-CHIN prefix is taken as a core requirement or elective for the Chinese major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the 2nd Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of 3 units of overlap of FL-prefix courses between Chinese major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

**NOTE: REGARDING STUDY ABROAD**

(appplies to all Chinese degrees, concentrations, and minors): Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language Concentration students, however, may apply all of their Study Abroad units towards the major.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
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<td>LD</td>
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</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
</tbody>
</table>
Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)

Lifelong Learning LD or UD 3 E

and Self- Development

Physical and/or UD 3 UD-B

Life Science

Arts and/or UD 3 UD-C

Humanities

Social Sciences UD 3 UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic LD or UD 3

and Racial Minorities (AERM)

Environmental LD or UD 3

Sustainability (ES)

Global Perspectives UD 3

(GP)

Social Justice UD 3

(SJ)

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).
b. One course in written composition (same as CSU GE area A2)

c. One course in critical thinking (same as CSU GE area A3)

d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Chinese: Concentration in Chinese Language Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 44

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>CHIN 101</td>
<td>First Semester Chinese</td>
<td>5</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>CHIN 102</td>
<td>Second Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>CHIN 103</td>
<td>Third Semester Chinese</td>
<td>5</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
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<td></td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td>14-15</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>CHIN 303</td>
<td>Intermediate Chinese</td>
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<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
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<td>Select One of the Courses Listed</td>
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<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td><strong>Sixth Semester</strong></td>
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<td>CHIN 311</td>
<td>Conversation and Reading</td>
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<td>GWAR Course (3 units)</td>
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<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<td><strong>Seventh Semester</strong></td>
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<td>CHIN 312</td>
<td>Speech and Writing</td>
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<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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</table>
Complementary Studies or SF State Studies or University Elective – Take Two  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 507</td>
<td>Traditional Chinese Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Eighth Semester

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Units 10

Total Units 16

To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

Complementary Studies

Required of all candidates for the Bachelor of Arts degree in Chinese are 12 units of Complementary Studies, which must come from courses bearing a prefix other than CHIN, and not cross-listed with CHIN. Complementary Studies for the Chinese major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Chinese (may include up to 3 units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad, SF State Bilateral, Chinese Flagship, and SLI Translation-Interpretation programs);
3. 12 units of course work taken as part of a second major, a minor or a certificate;
4. 12 units of course work in related disciplines with the approval of a Chinese Program advisor.

Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of greater China, East Asia, or Asian Americans.

Regarding Study Abroad

(appplies to all Chinese degrees, concentrations, and minors): Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language Concentration students, however, may apply all of their Study Abroad units towards the major.

Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

CHIN 600 Topics in Chinese Language, Literature, and Culture in English (3 units)
CHIN 601GW The Poetic Tradition - GWAR (3 units)
CHIN 602 The Narrative Tradition in English (3 units)
CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR (3 units)
CHIN 612GW Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR (3 units)
HUM 530 Chinese Civilization (3 units)

GWAR Course if not chosen from the 600 level courses above or upper division elective in Chinese or related area (upon advising).
Bachelor of Arts in Chinese: Concentration in Chinese Literature & Linguistics

• Students will satisfy the University Graduation Writing Assessment Requirement (GWAR) by taking one GWAR offering from the Chinese Program or Department of Modern Languages and Literatures. Current GWAR offerings include CHIN 601GW, CHIN 611GW, CHIN 612GW and MLL 400GW.

• Prior to submitting an application for graduation, candidates for the Bachelor of Arts degree in Chinese must present evidence of having completed a Culminating Experience Project. The Culminating Experience Project can be completed through one of three options:
  a. Standardized Test:
The student shall submit evidence of having passed the Hanyu Shuiping Kaoshi (HSK), the Test of Chinese as a Foreign Language (TOCFL), or the ACTFL Oral Proficiency Interview (OPI) for Mandarin Chinese at the appropriate level. The following grade levels are treated as passing:
  • Hanyu Shuiping Kaoshi (HSK): Level 4 or higher
  • Test of Chinese as a Foreign Language (TOCFL): Level 3 or higher
  • Oral Proficiency Interview (OPI): Advanced low or higher

  b. Writing Portfolio:
The student shall submit a writing portfolio with evidence of advanced level academic and/or professional writing in both Chinese and English. The portfolio must contain at least one work of Chinese language academic or professional writing developed out of a writing assignment submitted for credit in an upper division course taught in Chinese, and one work of English language academic or professional writing developed out of a writing assignment accepted for credit in a GWAR course.

  c. Flagship Capstone:
The Flagship Capstone option is available only to students accepted into the Chinese Flagship Program. Students in the Chinese Flagship Program must choose the Flagship Capstone Option, which consists of a “Capstone Year” abroad, to be implemented once the student has reached proficiency benchmarks set by the Language Flagship and has been recommended by the Council of Chinese Flagship Directors.

Bachelor of Arts in Chinese: Concentration in Chinese Literature and Linguistics

The Concentration in Chinese Literature and Linguistics is aimed at native and near-native speakers of Chinese language and consists of 18 units of required coursework in advanced language, linguistics, oratory, literature, and culture, plus an additional 12 units of lower and upper division electives in Chinese or a related subject. GWAR is built into the course design.

Chinese (B.A.): Concentration in Chinese Literature and Linguistics — 33 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
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</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 507</td>
<td>Traditional Chinese Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 530</td>
<td>Oratory and Performance in Chinese</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

CHIN 600  Topics in Chinese Language, Literature, and Culture in English
CHIN 601GW  The Poetic Tradition - GWAR
CHIN 602  The Narrative Tradition in English
CHIN 611GW  The Revolutionary Tradition in Modern Chinese Literature - GWAR
CHIN 612GW  Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR
HUM 530  Chinese Civilization

Lower Division Elective in Chinese (3 Units) or related area upon advising

Upper Division Electives in Chinese (9 Units) or related area upon advising

GWAR course (3 Units) if not taken from GWAR courses listed above.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies

Required of all candidates for the Bachelor of Arts degree in Chinese are 12 units of Complementary Studies, which must come from courses bearing a prefix other than CHIN, and not cross-listed with CHIN. Complementary Studies for the Chinese major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Chinese (may include up to 3 units of MLL prefix courses);
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3. 12 units of course work taken as part of a second major, a minor, or a certificate;
4. 12 units of course work in related disciplines with the approval of a Chinese Program advisor.

Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of Greater China, East Asia, or Asian Americans.

Where a course with a non-CHIN prefix is taken as a core requirement or elective for the Chinese major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the 2nd Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL prefix courses between Chinese major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.
NOTE: Regarding Study Abroad (applies to all Chinese degrees, concentrations, and minors): Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language Concentration students, however, may apply all of their Study Abroad units towards the major.

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<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
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</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
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</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
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<td>Arts</td>
<td>LD</td>
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<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
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<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
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<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
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<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
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<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
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<td>UD-B</td>
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<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Global Perspectives (GP)

Social Justice (SJ)

LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://wwwassist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)
Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in Chinese: Concentration in Chinese Literature & Linguistics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 33

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Division Elective in Chinese</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td></td>
<td>Units</td>
<td>15</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 311</td>
<td>Conversation and Reading</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>Select One of the Courses Listed</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>CHIN 312</td>
<td>Speech and Writing</td>
<td>3</td>
</tr>
<tr>
<td>GWAR Course (3 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives in Chinese (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
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</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Electives in Chinese (9 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
<td>3</td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHIN 507</td>
<td>Traditional Chinese Culture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Electives in Chinese (9 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complementary Studies or SF State Studies or University Elective – Take Three ³</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>15</th>
</tr>
</thead>
</table>

Total Units 120-122

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Required of all candidates for the Bachelor of Arts degree in Chinese are 12 units of Complementary Studies, which must come from courses bearing a prefix other than CHIN, and not cross-listed with CHIN. Complementary Studies for the Chinese major can be satisfied via four possible routes:
   - 12 units in any foreign language other than Chinese (may include up to 3 units of MLL prefix courses);
   - 12 units of course work taken in an approved study abroad program (including CSU Study Abroad, SF State Bilateral, Chinese Flagship, and SLI Translation-Interpretation programs);
   - 12 units of course work taken as part of a second major, a minor or a certificate;
   - 12 units of course work in related disciplines with the approval of a Chinese Program advisor.

   Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of Greater China, East Asia, or Asian Americans.

   Where a course with a non-CHIN prefix is taken as a core requirement or elective for the Chinese major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the 2nd Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL prefix courses between Chinese major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

   Regarding Study Abroad (applies to all Chinese degrees, concentrations, and minors): Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language Concentration students, however, may apply all of their Study Abroad units towards the major.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. CHIN 600 Topics in Chinese Language, Literature, and Culture in English (3 units)
   CHIN 601GW The Poetic Tradition - GWAR (3 units)
   CHIN 602 The Narrative Tradition in English (3 units)
   CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR (3 units)
   CHIN 612GW Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR (3 units)
   HUM 530 Chinese Civilization (3 units)

6. GWAR Course (3 units) if not chosen from the 600 level courses above or upper division elective in Chinese or related area (upon advising).
Bachelor of Arts in Chinese: Concentration in Flagship Chinese Language

- Students will satisfy the University Graduation Writing Assessment Requirement (GWAR) by taking one GWAR offering from the Chinese Program or Department of Modern Languages and Literatures. Current GWAR offerings include CHIN 601GW, CHIN 611GW, CHIN 612GW and MLL 400GW.
- Prior to submitting an application for graduation, candidates for the Bachelor of Arts degree in Chinese must present evidence of having completed a Culminating Experience Project. The Culminating Experience Project can be completed through one of three options:
  a. Standardized Test:
     The student shall submit evidence of having passed the Hanyu Shuiping Kaoshi (HSK), the Test of Chinese as a Foreign Language (TOCFL), or the ACTFL Oral Proficiency Interview (OPI) for Mandarin Chinese at the appropriate level. The following grade levels are treated as passing:
     - Hanyu Shuiping Kaoshi (HSK): Level 4 or higher
     - Test of Chinese as a Foreign Language (TOCFL): Level 3 or higher
     - Oral Proficiency Interview (OPI): Advanced low or higher
  b. Writing Portfolio:
     The student shall submit a writing portfolio with evidence of advanced level academic and/or professional writing in both Chinese and English. The portfolio must contain at least one work of Chinese language academic or professional writing developed out of a writing assignment submitted for credit in an upper division course taught in Chinese, and one work of English language academic or professional writing developed out of a writing assignment accepted for credit in a GWAR course.
  c. Flagship Capstone:
     The Flagship Capstone option is available only to students accepted into the Chinese Flagship Program. Students in the Chinese Flagship Program must choose the Flagship Capstone Option, which consists of a "Capstone Year" abroad, to be implemented once the student has reached proficiency benchmarks set by the Language Flagship and has been recommended by the Council of Chinese Flagship Directors.

Bachelor of Arts in Chinese: Concentration in Flagship Chinese Language

The Concentration in Flagship Chinese Language, in line with federally funded Chinese Flagship guidelines nationwide, consists of 35 units of lower and upper division language training, many of which are specifically tailored to students in the Flagship programs, plus nine units of coursework in linguistics, culture, classical language, and GWAR. Unique to the Flagship Concentration is a three unit content course taught in Chinese by a Chinese-proficient specialist in another subject area. Flagship students must also complete 12 units of Flagship-specific Study Abroad arranged through the Flagship Office, which will include coursework and internship components.

Note: The Concentration in Flagship Chinese Language is open only to students who have been admitted into the Chinese Flagship Program at SF State. Contact the Flagship Office (http://flagship.sfsu.edu) for information.

Chinese (B.A.): Concentration in Flagship Chinese Language – 44 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 101</td>
<td>First Semester Chinese (High school prerequisite)</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 102</td>
<td>Second Semester Chinese (High school prerequisite)</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 103</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 303</td>
<td>Intermediate Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 311</td>
<td>Conversation and Reading</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 312</td>
<td>Speech and Writing</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 475</td>
<td>Flagship Chinese I</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 476</td>
<td>Flagship Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

Flagship Content Course (3 Units)

pre-existing university course taught in Chinese by Chinese-proficient faculty in any department)

GWAR Course (3 Units)

Complementary Studies

Required of all candidates for the Bachelor of Arts degree in Chinese are 12 units of Complementary Studies, which must come from courses bearing a prefix other than CHIN, and not cross-listed with CHIN.

Complementary Studies for the Chinese major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Chinese (may include up to three units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad, SF State Bilateral, Chinese Flagship, and SLI Translation-Interpretation programs);
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Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of Greater China, East Asia, or Asian Americans.

Where a course with a non-CHIN prefix is taken as a core requirement or elective for the Chinese major, the said course may also (doubly) count towards Complementary Studies only via the Study Abroad option or the 2nd Major, Minor, or Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL prefix courses between Chinese major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Concentration students, however, may apply all of their Study Abroad units towards the major.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

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### Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses

---

| Written English Communication I | LD | 3 | A2 |
| Critical Thinking | LD | 3 | A3 |
| Written English Communication II | LD | 3 | A4 |
| Physical Science | LD | 3 | B1 |
| Life Science | LD | 3 | B2 |
| Lab Science | LD | 1 | B3 |
| Mathematics/Quantitative Reasoning | LD | 3 | B4 |
| Arts | LD | 3 | C1 |
| Arts or Humanities | LD | 3 | C1 or C2 |
| Humanities: Literature | LD | 3 | C3 |
| Social Sciences | LD | 3 | D1 |
| Social Sciences: US History | LD | 3 | D2 |
| Social Sciences: US & CA Government | LD | 3 | D3 |
| Lifelong Learning and Self-Development (LLD) | LD or UD | 3 | E |
| Physical and/or Life Science | UD | 3 | UD-B |
| Arts and/or Humanities | UD | 3 | UD-C |
| Social Sciences | UD | 3 | UD-D |

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES) | LD or UD | 3 |
| Global Perspectives (GP) | LD or UD | 3 |
| Social Justice (SJ) | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

**NOTE:** REGARDING STUDY ABROAD

(applies to all Chinese degrees, concentrations and minors): Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language
that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

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Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Chinese: Concentration in Flagship Chinese Language Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 44

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 101</td>
<td>First Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 102</td>
<td>Second Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 103</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14-15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 303</td>
<td>Intermediate Chinese</td>
<td>5</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>Select One of the Listed Courses</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 311</td>
<td>Conversation and Reading</td>
<td>3</td>
</tr>
<tr>
<td>GWAR Course (3 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 312</td>
<td>Speech and Writing</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
</tbody>
</table>
GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective – Take Two 3

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Eighth Semester**

Flagship Content Course 7

<table>
<thead>
<tr>
<th>Courses</th>
<th>Flagship Chinese I</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 475 or CHIN 476</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
</tbody>
</table>

Complementary Studies or SF State Studies or University Elective 3

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-122</td>
</tr>
</tbody>
</table>

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Required of all candidates for the Bachelor of Arts degree in Chinese are 12 units of Complementary Studies, which must come from courses bearing a prefix other than CHIN, and not cross-listed with CHIN. Complementary Studies for the Chinese major can be satisfied via four possible routes:
   - 12 units in any foreign language other than Chinese (may include up to three units of MLL prefix courses);
   - 12 units of course work taken in an approved study abroad program (including CSU Study Abroad, SF State Bilateral, Chinese Flagship, and SLI Translation-Interpretation programs);
   - 12 units of course work taken as part of a second major, a minor or a certificate;
   - 12 units of course work in related disciplines with the approval of a Chinese Program advisor.

   Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of Greater China, East Asia, or Asian Americans.

   Where a course with a non-CHIN prefix is taken as a core requirement or elective for the Chinese major, the said course may also (doubly) count towards Complementary Studies only via the Study Abroad option or the 2nd Major, Minor, or Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL prefix courses between Chinese major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. CHIN 600 Topics in Chinese Language, Literature, and Culture in English (3 units)
   CHIN 601GW The Poetic Tradition - GWAR (3 units)
   CHIN 602 The Narrative Tradition in English (3 units)
   CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR (3 units)
   CHIN 612GW Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR (3 units)
   HUM 530 Chinese Civilization (3 units)

6. GWAR Course (3 units) if not chosen from the 600 level courses above or upper division elective in Chinese or related area (upon advising).

7. Pre-existing university course taught in Chinese by Chinese-proficient faculty in any department.
Minor in Chinese Language

The Minor in Chinese is aimed at beginning level learners with little or no background in the Chinese Language.

Note: Native speakers of Chinese and international students who have completed secondary and/or tertiary education in the Chinese language in a Chinese-speaking country are discouraged from choosing this minor.

Chinese Language Minor – 23 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 101</td>
<td>First Semester Chinese (High school prerequisite)</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 102</td>
<td>Second Semester Chinese (High school prerequisite)</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 103</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 303</td>
<td>Intermediate Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHIN 311</td>
<td>Conversation and Reading</td>
<td>3</td>
</tr>
<tr>
<td>or CHIN 312</td>
<td>Speech and Writing</td>
<td></td>
</tr>
</tbody>
</table>

Note: Regarding study abroad (applies to all Chinese degrees, concentrations, and minors): Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language Concentration students, however, may apply all of their Study Abroad units towards the major.

Minor in Chinese Literature and Linguistics

This minor is aimed at native and near-native speakers of Chinese language and consists of 18 units of required coursework in advanced language, linguistics, oratory, literature, and culture, plus an additional six units of upper division electives in Chinese or a related subject.

Chinese Literature and Linguistics Minor – 24 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 507</td>
<td>Traditional Chinese Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 530</td>
<td>Oratory and Performance in Chinese</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

CHIN 600 Topics in Chinese Language, Literature, and Culture in English

CHIN 601GW The Poetic Tradition - GWAR

CHIN 602 The Narrative Tradition in English

CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR

CHIN 612GW Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR

HUM 530 Chinese Civilization

Upper Division Electives in Chinese (6 units)

or related area (upon advising)

Note regarding study abroad: (applies to all Chinese degrees, concentrations, and minors)
Students are encouraged to study abroad through the International Programs of the California State University and the Bilateral Programs of San Francisco State University. For students opting to study abroad, all study abroad units will count as units in residence and can be used for graduation credit, but no more than half of the units required for the major or minor may be taken outside of the home campus. Flagship Language Concentration students, however, may apply all of their Study Abroad units towards the major.

Master of Arts in Chinese

Admission to the Program

A prerequisite for admission to the M.A. program is a B.A. in Chinese (or equivalent), with a Grade Point Average of at least 3.0. Applicants are thus expected to demonstrate advanced proficiency in spoken Mandarin Chinese and Standard Written Chinese, familiarity with major literary/cultural figures and texts, training in the fundamentals of linguistics, and a basic reading proficiency in classical/literary Chinese. San Francisco State University also requires that all students admitted to graduate standing demonstrate proficiency in written English. Applicants who are lacking in one or more of these areas may be admitted conditionally after developing, through consultation with advisors, a program of studies to establish equivalency. Courses prescribed for equivalency may not be credited toward the M.A. degree. In order to assess whether applicants meet acceptable standards and have fulfilled prerequisites, both the Division of Graduate Studies and the Chinese Program are involved in the application review process. Application materials required by the Division of Graduate Studies are described elsewhere in this Bulletin (for details, see Graduate Studies). In addition, the Chinese Program also requires the following supplementary documents:

1. a 500-word analytical statement of purpose in English;
2. a statement in Chinese covering the same or similar content; and
3. two letters of recommendation from individuals familiar with the applicant’s academic and/or professional qualifications.

These supplementary materials should be sent directly to the Graduate Advisor of the Chinese Program (http://www.sfsu.edu/chinese-programs/faqs).

Chinese (M.A.) — Minimum 30 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 821</td>
<td>Modern Chinese Literature</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 822</td>
<td>Classical Chinese Literature</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 824</td>
<td>Testing &amp; Assessment in Teaching/Learning Chinese as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>or CHIN 825</td>
<td>Applied Linguistics and Teaching Chinese</td>
<td></td>
</tr>
<tr>
<td>or CHIN 837</td>
<td>Materials Development for Teaching Chinese</td>
<td></td>
</tr>
<tr>
<td>CHIN 826</td>
<td>Semantics and Morphology</td>
<td>3</td>
</tr>
<tr>
<td>or CHIN 827</td>
<td>Language Change and Dialectic Variation</td>
<td></td>
</tr>
</tbody>
</table>

Elective Courses (18 units)

- One exclusively graduate (not paired) elective course (3 units) in Chinese.
- One exclusively graduate (not paired) elective course (3 units) in Chinese, or paired upper division/graduate course in Chinese (students must enroll using the graduate course number)
• Three upper division/graduate electives (9 units) in Chinese or related subjects with approval of graduate advisor.
• Graduate course (3 units) in research or teaching methods on advisement.

and

CHIN 896EXM Master’s Comprehensive Written and Oral Examinations in two subfields

The student is admitted to the oral examination upon passing the written examination. Both examinations may be attempted not more than two times.
Modern Languages and Literatures—French
College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338–1421
Website: mll.sfsu.edu/french-program/ (http://mll.sfsu.edu/french-program)

Chair: Mohammad Salama
Program Coordinator: Bérénice Le Marchand
Undergraduate Advisors: Anne Linton, Blanca Missé
Graduate Advisor: Bérénice Le Marchand

Program Scope
The French program offers a challenging and enriching experience for those who are interested not only in the French language but also in French and Francophone culture and society. French is one of the very few languages spoken all over the world, ranked the sixth most widely spoken language after Mandarin Chinese, English, Hindi, Spanish and Arabic. Today, more than 220 million people speak French throughout the world: roughly 51% live in Africa and the Middle East, 40% live in Europe, 8% in the Americas, and 1% in Asia/Oceania. As a result of population growth, there will be more than 700 million French Speakers by 2050, 80% of whom will be living in Africa. The French Program is excited to offer an avenue to engage with this expanding and diverse Francophone cultural and linguistic world.

We offer full-fledged Bachelor of Arts program and focus on developing proficiency in the language in a sociocultural context by offering a variety of courses and by conducting courses in culture and literature in French. Great importance is placed on participatory classes, which are small and practice-oriented, to help students adapt themselves to a changing world. Our B.A. program emphasizes training in the four language skills—listening, speaking, reading, and writing as the basic groundwork for more advanced study of the language, literature, and culture. The aim is to broaden students’ cultural perspectives by introducing them to various aspects of French and Francophone cultures as they are manifested throughout the world. Students who complete a French major should have both the linguistic and cultural preparation to be able to function at a fairly advanced level in a French-speaking society or with French speakers, and have developed a tolerance for forms of expression and ways of life different from their own. It is hoped that this will prepare them both to pursue careers and to participate fully in today’s and tomorrow’s global cultures. If you are an undergraduate student and wonder which class to take, you can take a placement test and see an adviser. Please contact an adviser for further details.

We also have a full-fledged Master of Arts programs with graduate seminars in literature, culture, and linguistics, which allows students to teach at the community college level or to continue graduate study for a doctorate. While many of our B.A. and M.A. graduates pursue teaching careers or further study, a good number go on to careers in other fields such as international law or business.

B.A. and M.A. students are also given a number of opportunities to study in France. Through the California State University’s international programs, selected students may study at Aix-en-Provence and in Paris.

Such opportunities give students practical experience in everyday French life and culture, helping to build and reinforce these skills.

Associate Professors:
Bérénice Le Marchand

Assistant Professors:
Anne Linton, Blanca Missé

 Majors
• Bachelor of Arts in French (p. 910)

 Minors
• Minor in French (p. 915)

 Masters
• Master of Arts in French (p. 915)

Bachelor of Arts in French

The French major consists of 30 units of upper division coursework. Up to 16 units of prerequisite coursework or demonstrated language proficiency is required to begin the major.

All upper division courses are conducted in French (except MLL 325, and students are expected to use French in their speaking, reading, and writing (except for writing, in FR 400GW). Writing in the Major: Students must complete the University's GWAR requirement by taking FR 400GW, MLL 400GW or CWL 400GW

French (B.A.) — 30 units

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 301</td>
<td>French Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>or FR 450</td>
<td>Translating Themes: English/French</td>
<td></td>
</tr>
<tr>
<td>or MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td></td>
</tr>
<tr>
<td>FR 305</td>
<td>French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FR 400GW</td>
<td>French Culture - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or FR 410</td>
<td>Contemporary French Civilization</td>
<td></td>
</tr>
<tr>
<td>FR 500</td>
<td>Introduction to Literary Texts</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives in the Major (18 units)

Choose any six courses in French numbered 300 to 699, not taken as a required course. At least three of these courses must be at the 400 level or above.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies

Required of all candidates for the Bachelor of Arts degree in French are 12 units of Complementary Studies, which must come from courses bearing a prefix other than FR, and not cross-listed with FR.
Complementary Studies for the French major can be satisfied via four possible routes:

1. 12 units in any foreign language other than French (may include up to three units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program;
3. 12 units of course work taken as partial completion of a single second major, a minor or a certificate;
4. 12 units of course work in related disciplines with the approval of a French Program advisor.

Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of greater French and Francophone Study.

Where a course with a non-FR prefix is taken as a core requirement or elective for the French major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the 2nd Major, Minor, or Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL-prefix courses between French major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
</tbody>
</table>

### Social Sciences

- **UD**: 3
- **UD-D**: 3

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- **American Ethnic and Racial Minorities (AERM)**: LD or UD - 3
- **Environmental Sustainability (ES)**: LD or UD - 3
- **Global Perspectives (GP)**: LD or UD - 3
- **Social Justice (SJ)**: LD or UD - 3

Note: LD = Lower Division; UD = Upper Division.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in French Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 30

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FR 101</td>
<td>First Semester French</td>
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</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>FR 102</td>
<td>Second Semester French</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>FR 215</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>FR 216</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<td>15</td>
</tr>
<tr>
<td>FR 305</td>
<td>French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FR 306</td>
<td>Advanced Conversation</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FR 301</td>
<td>French Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>FR 450</td>
<td>Translating Themes: English/French</td>
<td></td>
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<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td></td>
</tr>
<tr>
<td>Electives (18 units) – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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Units: 15-16
Seventh Semester

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>FR 400GW</td>
<td>3</td>
</tr>
<tr>
<td>or FR 410</td>
<td></td>
</tr>
<tr>
<td>Electives (18 units) – Take Two 6</td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>Units</td>
<td>15</td>
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</table>

Eighth Semester

<table>
<thead>
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<th>Units</th>
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<tbody>
<tr>
<td>FR 500</td>
<td>3</td>
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<tr>
<td>Electives (18 units) – Take Two 6</td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 5</td>
<td>5</td>
</tr>
<tr>
<td>Units</td>
<td>14</td>
</tr>
<tr>
<td>Total Units</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. **Prerequisites**

   Prerequisites depend on score on the Placement Test in French. If prerequisite not needed, take Complementary Studies or SF State Studies or University Elective.

   The Placement Test in French can be taken via iLearn -- please consult your advisor for further details. There are 45 questions in the online test:
   - A grade above 40 = Student should enroll in courses beyond the prerequisites.
   - A grade above 30 = Student should enroll in FR 216
   - A grade above 20 = Student should enroll in FR 215
   - A grade above 10 = Student should enroll in FR 102
   - A grade less than 10 = Student should enroll in FR 101

2. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

3. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. **Complementary Studies**

   Required of all candidates for the Bachelor of Arts degree in French are 12 units of Complementary Studies, which must come from courses bearing a prefix other than FR, and not cross-listed with FR. Complementary Studies for the French major can be satisfied via four possible routes:
   - 12 units in any foreign language other than French (may include up to three units of MLL prefix courses);
   - 12 units of course work taken in an approved study abroad program;
   - 12 units of course work taken as partial completion of a single second major, a minor or a certificate;
   - 12 units of course work in related disciplines with the approval of a French Program advisor.

   Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of greater French and Francophone Study.

   Where a course with a non-FR prefix is taken as a core requirement or elective for the French major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the 2nd Major, Minor, or Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL-prefix courses between French major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

6. **Electives met in the Major (18 units)**

   Choose any six courses in French numbered 300 to 699, not taken as a required course. At least three of these courses must be at the 400 level or above.
Minor in French

The French minor consists of 21 units of upper division coursework. Up to 16 units of prerequisite coursework or demonstrated language proficiency is required before taking upper division courses. All upper division courses are conducted in French (except MLL 325), and students are expected to use French in their speaking, reading, and writing (except, for writing, in FR 400GW).

French, Minor – 21 units

Required Courses (12 units)

Select one of the following:

- MLL 325 Linguistics for Foreign Languages 3
- FR 450 Translating Themes: English/French
- FR 301 French Phonetics
- FR 305 French Composition 3
- FR 400GW French Culture - GWAR or FR 410 Contemporary French Civilization 3
- FR 500 Introduction to Literary Texts 3

Electives for the Minor (9 units)

Three French upper division courses, 300 level or above.

Master of Arts in French

Program Scope

The M.A. Program in French is primarily focused on the study of literature and culture from the Middle Ages to the 20th century. Our main objective is to offer interesting and challenging courses, based on original research and the field of specialization of the French faculty, to inspire and teach students to do graduate work while developing their knowledge of French and Francophone literature and culture. All graduate courses in the French Program are conducted in French and students are expected to use French in all their work, including in their Master's thesis. We offer a variety of courses on periods, genres and themes. Courses are rotated and renewed over a period of two to three years to cover most areas and periods of French and Francophone literature. Students are required to take courses covering five different centuries from the Middle Ages to the 20th century among the seven periods/areas offered. Courses available are listed in alphabetical order in the Bulletin (consult Index for page reference). Short descriptions of the specific courses offered for the academic year can be found on the French website.

Admission to Program

Applicants must have a minimum 3.0 GPA. They must demonstrate a proficiency level in French and the knowledge of language, culture, and literature expected at the conclusion of a baccalaureate major in French. Consideration will also be given to students with advanced French competency who have obtained a B.A. in another field. They may be admitted as conditionally classified graduate students and are required to remediate or complete all deficiencies before attaining classified status. In order to be accepted by the Program, applicants need to send directly to the French Graduate Advisor (see Faculty page) an analytical statement of purpose of approximately 500 words written in English, and another in French covering the same content, a sample of written work in French (such as a literary dissertation), two letters of recommendation, and make an appointment for an oral interview in French (in person or by phone).

Please note that the only upper division courses accepted for the graduate program are the elective courses (for which graduate students are the courses (for which graduate students are also expected to complete additional work) recommended and accepted by the graduate advisor. The following courses are not accepted: FR 304, FR 305, and FR 306.

Written English Proficiency Requirements

All graduate students at SF State must complete Level One and Level Two English writing requirements.

Level One

Submission of a Statement of Purpose in the application for admission to the French M.A. The statement is to be written in English (500 words) and include the same or similar statement written in French.

Level Two

Level Two may be met in one for two ways:

- Option I: Submit either a 15 to 20 page essay written in English for a graduate class (program other than the French Program) or an English translation of a 15 to 20 page essay written in French for a graduate class in the French Program, unless the French instructor of that class accepts an essay written in English.
- Option II: Submission of a 15 page summary of the M.A. thesis written in English. This summary will be submitted for evaluation to the French faculty.

Students are advised to consult with their graduate advisor early in the program on how best to prepare for the Level Two writing requirement.

French (M.A.) – Minimum 30 Units

Graduate Courses (15 Units)

In French

Upper Division/Graduate Courses (6 Units)

in French language, literature, or Civilization.

One of the Following Options (9 Units)

Option I

Upper division/graduate courses (9 units) in French or related subjects, with approval of graduate advisor

and Master's Comprehensive Written and Oral Examinations

Option II

Upper division/graduate courses (6 units) in French or related subjects, with the approval of a graduate advisor.

- FR 898 Master’s Thesis
- and Master’s Comprehensive Oral Examination

Written and Oral Examinations Option

Students are admitted to oral examination upon passing the written examination. Both examinations may be attempted not more than two times.
Master’s Thesis Option
Students must pass an oral examination at the end of the semester preceding the semester when they write their thesis.
Modern Languages and Literatures—German

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338–1421
Website: mll.sfsu.edu/german-program/ (http://mll.sfsu.edu/german-program)

Chair: Mohammad Salama
Undergraduate Advisors: Volker Langbehn (A–L), Ilona Vandergriff (M–Z)
Program Coordinator: Volker Langbehn
Graduate Advisor: Ilona Vandergriff

Program Scope
The German Program offers a comprehensive and carefully designed program for undergraduate and graduate study in the area of language, literature, culture, and linguistics.

The program addresses the needs of students at all levels, from those without prior knowledge of German to those with advanced, near-native or native competency in German. The curriculum is designed to enable students to develop language proficiency in accordance with the nationally recognized ACTFL standards. Learning German will open up new cultural perspectives and allow students to communicate with 120 million people in the German-speaking countries.

The program serves students from the entire University. Many of the students enrolled are double majors, who concurrently pursue a degree in disciplines such as International Relations, Humanities, History, Psychology, Creative Writing, Communication Studies, and Music. Students can also opt for a European Studies Minor.

In cooperation with the Office of International Programs, we encourage students to study abroad. Through the California State University (CSU) International Program, students may study, for example, at the Universität of Tübingen, Universität of Heidelberg or other institutions of higher learning. Such opportunities give students an immersion experience, helping to build and reinforce language skills while earning units towards graduation. The program also facilitates paid summer internships in German-speaking Europe.

Professors
Vandergriff, Langbehn

Majors
• Bachelor of Arts in German (p. 917)

Minors
• Minor in German (p. 922)

Masters
• Masters of Arts in German (p. 922)

Bachelor of Arts in German
The academic program leading to a B.A. in German offers a wide range of courses to meet the diverse needs of today’s student population. The undergraduate curriculum includes coursework in language, literature, linguistics and culture. In addition, students can select courses in translation and German for business. To ensure that all students develop advanced language competency, the German Program places great importance on small-sized participatory classes, which maximize opportunities to communicate in German.

Innovative teaching methods, films, multimedia and online materials enhance classroom interaction and enrich the academic experience. In addition, excellent computer facilities and a Foreign Language Multimedia Lab provide support for our academic program.

The German major consists of a total of 44 units, including 30 units of upper division coursework. Up to 14 units of prerequisite coursework or demonstrated language proficiency is required to begin the major.

German (B.A.) — 30 units

Required Courses (18 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 305</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GER 350GW</td>
<td>Translation Workshop - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or MLL 400GW</td>
<td>Reading and Analysis of Cultural Texts-GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GER 401</td>
<td>German Culture and Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>GER 510</td>
<td>German Literature I</td>
<td>3</td>
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<tr>
<td>GER 511</td>
<td>German Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Electives (12 units)
on advisement

Up to 12 units may be taken through the CSU International Program in Germany. These units must be upper division and must be approved by a German advisor.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case additional upper division courses will be needed to reach the required total.

Complementary Studies
Required of all candidates for the Bachelor of Arts degree in German are 12 units of Complementary Studies, which must come from courses bearing a prefix other than GER, and not cross-listed with GER. Complementary Studies for the German major can be satisfied via four possible routes:

1. 12 units in any foreign language other than German (may include up to 3 units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
3. 12 units of course work taken as partial completion of a second major, a minor or a certificate;
4. 12 units of course work in related disciplines with the approval of a German Program advisor.
Related disciplines typically include linguistics, literature, communication, Jewish studies, philosophy, history, humanities, education, and any aspect of Europe.

Where a course with a non-GER prefix, (and not cross-listed with GER), is taken as a core requirement or elective for the German major, the said course may also (doubly) count towards Complementary Studies only via the Study Abroad option or the 2nd Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of 3 units of overlap of MLL-prefix courses between German major and Complementary Studies units.

Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

**General Education Requirements**

<table>
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<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
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<td>B4</td>
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<td>Arts</td>
<td>LD</td>
<td>3</td>
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<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
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<tr>
<td>Social Sciences: Literature</td>
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<td>Social Sciences: US History</td>
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<td>Social Sciences: US &amp; CA Government</td>
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<tr>
<td>Lifelong Learning and Self- Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
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</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmental Sustainability (ES)          | LD or UD | 3 |
| Global Perspectives (GP)                   | LD or UD | 3 |
| Social Justice (SJ)                        | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

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Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in German Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 30

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 101</td>
<td>First Semester German</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

| **Second Semester** |                                                    |       |
| GER 102            | Second Semester German                             | 4     |
| GE Area A: Oral Communication (A1) or Critical Thinking (A3) | 3     |
| GE Area A: Written English Communication II (A4) | 3     |
| or Written English Communication (A2) Stretch II  |       |
| GE Area B: Physical Science (B1) and Laboratory Science (B3) | 3     |
| Complementary Studies or SF State Studies or University Elective | 3     |
| **Units**          |                                                    | 16-17 |

| **Third Semester**  |                                                    |       |
| GER 206            | Intermediate German Conversation                   | 3     |
| GE Area A: Written English Communication II (A4) if not already satisfied | 3     |
| or Complementary Studies or SF State Studies or University Elective | 4     |
| GE Area B: Life Science (B2) and Laboratory Science (B3)  | 3-4   |
| GE Area C: Arts (C1)                                      | 3     |
| GE Area D: U.S. History (D2) or U.S. and California Government (D3) | 3     |
| **Units**          |                                                    | 15-16 |

| **Fourth Semester** |                                                    |       |
| GER 207            | Intermediate German                                | 3     |
| GE Area C: Humanities: Literature (C3)                  | 3     |
| GE Area D: Social Sciences (D1)                         | 3     |
| Complementary Studies or SF State Studies or University Elective – Take Two | 4     |
| **Units**          |                                                    | 15    |

| **Fifth Semester** |                                                    |       |
| GER 305            | Advanced Grammar and Composition                   | 3     |
| GER 350GW or MLL 400GW | Translation Workshop - GWAR  | 3     |
| or Reading and Analysis of Cultural Texts-GWAR         |       |
| Upper Division Electives (12 units)  | 3     |
| GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) | 3     |
| Complementary Studies or SF State Studies or University Elective | 4     |
| **Units**          |                                                    | 15    |

| **Sixth Semester** |                                                    |       |
| GER 401            | German Culture and Civilization I                  | 3     |
| MLL 325            | Linguistics for Foreign Languages                   | 3     |
| Upper Division Electives (12 units)  | 3     |
| GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | 3     |
| Complementary Studies or SF State Studies or University Elective | 4     |
| **Units**          |                                                    | 15    |

---

1. Units at UC-Berkeley require proficiency in a language other than English.  
2. Basic proficiency in a foreign language.  
3. Complementary to Area D.  
4. Complementary to Area B.  
5. Electives selected in consultation with an advisor.
### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 510 German Literature I</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives (12 units)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>5</td>
</tr>
</tbody>
</table>

**Units** 14

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 511 German Literature II</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives (12 units)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>8</td>
</tr>
</tbody>
</table>

**Units** 14

**Total Units** 120-122

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies**
   - Required of all candidates for the Bachelor of Arts degree in German are 12 units of Complementary Studies, which must come from courses bearing a prefix other than GER, and not cross-listed with GER. Complementary Studies for the German major can be satisfied via four possible routes:
     1. 12 units in any foreign language other than German (may include up to 3 units of MLL prefix courses);
     2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
     3. 12 units of course work taken as partial completion of a second major, a minor or a certificate;
     4. 12 units of course work in related disciplines with the approval of a German Program advisor.
   - Related disciplines typically include linguistics, literature, communication, Jewish studies, philosophy, history, humanities, education, and any aspect of Europe.
   - Where a course with a non-GER prefix, (and not cross-listed with GER), is taken as a core requirement or elective for the German major, the said course may also (doubly) count towards Complementary Studies only via the Study Abroad option or the 2nd Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of 3 units of overlap of MLL-prefix courses between German major and Complementary Studies units.
   - Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

5. **Upper Division Electives (12 units)**
   - On advisement: Up to 12 units may be taken through the CSU International Program in Germany. These units must be upper division and must be approved by a German advisor.
Minor in German

The minor consists of a total of 35 units, including 21 units of upper division coursework. Up to 14 units of prerequisite coursework or demonstrated language proficiency is required to begin the minor.

German, Minor — (35 units)
Required Courses (18 units)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 301</td>
<td>German in Review</td>
<td>3</td>
</tr>
<tr>
<td>GER 305</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GER 335</td>
<td>German Through Cinema</td>
<td>3</td>
</tr>
<tr>
<td>GER 341</td>
<td>Intensive Language Practice and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>GER 330</td>
<td>German Language and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 401</td>
<td>German Culture and Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>GER 502</td>
<td>Contemporary Germany</td>
<td>3</td>
</tr>
<tr>
<td>HUM 375</td>
<td>Biography of a City (Berlin)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 510</td>
<td>German Literature I</td>
<td>3</td>
</tr>
<tr>
<td>GER 511</td>
<td>German Literature II</td>
<td>3</td>
</tr>
<tr>
<td>GER 556</td>
<td>19th and 20th Century German Plays</td>
<td>3</td>
</tr>
<tr>
<td>GER 613</td>
<td>Weimar Literature in English</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Electives (3 units)
on advisement

Up to 12 units may be taken through the CSU International Program in Germany. These units must be upper division and must be approved by a German advisor.

Master of Arts in German

The graduate program in German offers students a challenging and enriching course of study that encompasses linguistics as well as literary and cultural history from the Middle Ages to the present. Over the course of their graduate studies in German, students acquire a rich interdisciplinary perspective and in-depth knowledge of the literatures of the German-speaking countries along with the critical skills for literary analysis. The program offers many graduate courses in German. As a result, many of our M.A. candidates develop superior language competency.

Admission to the Program

It is generally expected that students entering the program will have a B.A. degree or equivalent in German; however, consideration will be given to applicants with advanced German language competencies who have a B.A. in another field. These applicants may be admitted as conditionally classified graduate students and will be required to remediate or complete all deficiencies before attaining classified status.

To apply to the program:

- Applicants must also have a minimum 3.0 GPA
- Demonstrate advanced proficiency level in German

- Submit an analytical statement of purpose written in English of approximately 500 words, stating the reasons for applying to the graduate program
- Submit a sample of analytical writing of 500 words or more written in German
- Provide one set of transcripts
- Submit at least two letters of recommendation.

If you have any questions, please contact the program’s graduate advisor to discuss academic preparation for the M.A.

German (M.A.) — Minimum 30 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 745</td>
<td>History of German Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate Courses (12 Units)
in German

Upper Division/Graduate Courses (6 Units)
in German language, literature, or civilization

Upper Division/Graduate Courses (9 Units)
in German language, literature, or civilization, or in related subjects with approval of graduate advisor.

and Master’s Comprehensive Written and Oral Examinations

The student is admitted to the oral examination upon passing the written examination. Both examinations may be attempted not more than two times.

Written English Proficiency

Students have to submit an analytical or argumentative writing of 3,500 words or more written in English, such as a graduate seminar paper. The writing will be evaluated by the German Academic Review Committee using ten criteria in four categories:

1. structure/organization,
2. conclusions grounded in theory and research,
3. knowledge and understanding, and
4. academic discourse which is comprehensive, logical, and consistent.
Modern Languages and Literatures—Italian
College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338–1421
Website: mll.sfsu.edu/italian-program (http://mll.sfsu.edu/italian-program)

Chair: Mohammad Salama
Program Coordinator: Christopher Concolino
Undergraduate Advisor: Christopher Concolino
Graduate Advisor: Christopher Concolino

Program Scope
The Italian program offers courses in the basic skills of reading, writing, speaking, and understanding; a broad and comprehensive background in literature, culture, civilization, and Italian studies as well as preparation for a specialized career. Many students study Italian to become language teachers. Others, studying music, art, film, archaeology, international relations, history, business, and comparative literature, as well as students planning to become translators and interpreters have discovered the usefulness of Italian. Some take Italian purely for the cultural enrichment they derive from it. The study of Italian is particularly rewarding for those of Italian heritage. It also opens the doors to the CSU International Program Center in Florence, to various Italian art and professional academies, and to Italian universities where students can pursue studies in any field.

Associate Professor
Concolino

Assistant Professor
Albiero

Major
• Bachelor of Arts in Italian (p. 923)

Minor
• Minor in Italian (p. 928)

Masters
• Masters of Arts in Italian (p. 928)

Bachelor of Arts in Italian

Preparation for the Major
The Italian major consists of 30 units of upper division coursework. Up to 16 units of lower division coursework or demonstrated language proficiency is required for the major.

Proficiency can be demonstrated by completing the necessary lower-division courses or testing out of them.

All upper-division courses are conducted in Italian, and students are expected to use Italian in their speaking, reading, and writing.

Writing in the Major
Students must complete the University’s GWAR requirement by taking MLL 400GW, CWL 400GW or ITAL 600GW.

Italian (B.A.) — 44 Units

Required Courses (29 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 101</td>
<td>First Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 102</td>
<td>Second Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 103</td>
<td>Third Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 104</td>
<td>Fourth Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 305</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 401</td>
<td>Italian Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 510</td>
<td>Italian Literature: Early Period</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 511</td>
<td>Italian Literature: Late Period</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Electives (15 Units)
on advisement

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies
Required of all candidates for the Bachelor of Arts degree in Italian are 12 units of Complementary Studies, which must come from courses bearing a prefix other than ITAL, and not cross-listed with ITAL. Complementary Studies for the Italian major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Italian (may include up to three units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
3. 12 units of course work taken as partial completion of a second major, a minor or a certificate;
4. 12 units of course work in related disciplines with the approval of an Italian Program advisor.

Related disciplines typically include classics, linguistics, literature, humanities, philosophy, history, music, art history, education, Jewish studies, apparel design and merchandising, industrial design, and any aspect of greater Italy, Mediterranean, Italian-American or European studies.

Where a course with a non-ITAL prefix, (and not cross-listed with ITAL), is taken as a core requirement or elective for the Italian major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the second Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL-prefix courses between Italian major and Complementary Studies units. Students satisfying Complementary Studies through
the Related Subjects option are not allowed to double-count major and Complementary Studies units.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Italian Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 44

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 101</td>
<td>First Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 102</td>
<td>Second Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 103</td>
<td>Third Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) If not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 104</td>
<td>Fourth Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 305</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives (15 units)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 401</td>
<td>Italian Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 511</td>
<td>Italian Literature: Late Period</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives (15 units)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITAL 510</td>
<td>Italian Literature: Early Period</td>
<td>3</td>
</tr>
</tbody>
</table>
**Bachelor of Arts in Italian Roadmap**

**San Francisco State University Bulletin 2017-2018**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Electives (15 units)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>5</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Electives (15 units) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>8</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>120-122</strong></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies**
   Required of all candidates for the Bachelor of Arts degree in Italian are 12 units of Complementary Studies, which must come from courses bearing a prefix other than ITAL, and not cross-listed with ITAL. Complementary Studies for the Italian major can be satisfied via four possible routes:
   - 12 units in any foreign language other than Italian (may include up to three units of MLL prefix courses);
   - 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
   - 12 units of course work taken as partial completion of a second major, a minor or a certificate;
   - 12 units of course work in related disciplines with the approval of an Italian Program advisor.
   Related disciplines typically include classics, linguistics, literature, humanities, philosophy, history, music, art history, education, Jewish studies, apparel design and merchandising, industrial design, and any aspect of greater Italy, Mediterranean, Italian-American or European studies.
   Where a course with a non-ITAL prefix, (and not cross-listed with ITAL), is taken as a core requirement or elective for the Italian major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the second Major/Minor/Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL-prefix courses between Italian major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.
Minor in Italian

Italian Minor – 17 units

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 101</td>
<td>First Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 102</td>
<td>Second Semester Italian</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 103</td>
<td>Third Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 104</td>
<td>Fourth Semester Italian</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td>Advanced Grammar and Composition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Linguistics for Foreign Languages</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Italian Culture and Civilization</td>
<td></td>
</tr>
</tbody>
</table>

Most of our lower-division courses are offered during the morning. Upper-division courses during the morning or early afternoon. First- and second-semester Italian courses are four units each.

All others are three unit courses, with the exception of our individual study courses, which range from one to three units. All courses are conducted in Italian to offer students maximum exposure to the language.

Master of Arts in Italian

The Master of Arts in Italian program stresses the study of literature and culture. We emphasize Italianistica (Italian Studies), and individual authors from the Middle Ages to the present. The history of Italian literature is taught through linguistic and thematic development in relation to larger European and extra-European contexts. Close textual analysis that includes the study of stylistics, rhetoric, semantics, and syntax are a part of graduate seminars, but courses naturally provide useful background knowledge related to topics in art, history, music and philosophy. The M.A. program requires students to deepen their knowledge of genres and literary periods, which they undertake in courses taught in Italian. This fact enables them to reach superior language competency in spoken and written Italian. Many of our graduates teach in secondary schools and community colleges or continue their studies for the Ph.D.

Admission to the Program

Applicants must have a minimum GPA of 3.0 and a B.A. in Italian or its equivalent. Those without this degree may be admitted conditionally and asked to complete additional units in consultation with the graduate advisor.

The following documents must be sent to the graduate advisor:

1. two letters of recommendation;
2. an analytical Statement of Purpose in English of approximately 500 words, which should be accompanied by
3. a second version written in Italian; (the two Statements of Purpose are required for admission in order to show proficiency in writing at the graduate level); official proof of the applicant’s score on the GRE (Graduate Record Examination).

Italian (M.A.) – Minimum 30 units

Graduate Seminars in Italian (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 880</td>
<td>Seminar: Individual Authors</td>
<td>15</td>
</tr>
</tbody>
</table>

Graduate Seminars or Paired Graduate Courses (6 units)

Italian Literature from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 800</td>
<td>Italian Literature on Film in English - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 850</td>
<td>The Italian Theater</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 870</td>
<td>Italian Women Writers - 13th to 20th Centuries</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 881</td>
<td>Divina Commedia</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Undergraduate Courses (9 units)

Paired courses or graduate courses in Italian or related disciplines with approval of graduate major advisor.

and Master’s Comprehensive Written and Oral Examinations¹

A maximum of six units may be taken in English.

A maximum of nine units transferred from CSU approved study-abroad programs may count toward the M.A. if taken as upper division undergraduate units or graduate-level units.

¹ Students are admitted to the oral examination upon passing the written examination. Both examinations may be attempted not more than twice.

To meet the University’s exit requirement for written English, M.A. students will be asked to enroll in MLL 701 before taking their Master’s Comprehensive Written and Oral Examinations.
Modern Languages and Literatures—Japanese

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338-1421
Website: mll.sfsu.edu/japanese-program/ (http://mll.sfsu.edu/japanese-program)

Chair: Mohammad Salama
Program Coordinator: Makiko Asano
Undergraduate Advisors: Midori McKeon (Minor), Masahiko Minami (Major)
Graduate Advisor: Midori McKeon

Program Scope
The undergraduate Japanese program focuses on developing proficiency in the language in a socio-cultural context by offering a variety of language training courses and by conducting courses in culture and literature in Japanese. In addition to the required course work, students choose electives from a broad range of subjects, which include various courses in literature and culture as well as in translation, interpretation, and business Japanese. The Master of Arts in Japanese offers two emphases: Teaching Japanese as a Foreign Language and Professional Applications of the Language. The curriculum for the teaching emphasis prepares students for a career teaching Japanese at the college level. The Professional Applications emphasis helps students acquire competency in their specific occupational goals in areas such as business, government, arts, interpretation, translation and other professional fields.

Professors
McKeon, Minami

Associate Professor
Asano

Majors
• Bachelor of Arts in Japanese (p. 929)

Minors
• Minor in Japanese (p. 934)

Masters
• Master of Arts in Japanese (p. 934)

Bachelor of Arts in Japanese
The Japanese major consists of 45 units of lower and upper division coursework. Up to 10 units of prerequisite coursework or demonstrated language proficiency is required to begin the major.

Upper division courses in Japanese are generally conducted in Japanese, and students are expected to use Japanese in their speaking, reading, and writing.

Writing in the Major
Students must complete the University’s GWAR requirement by taking MLL 400GW, CWL 400GW, HUM 300GW, or COMM 362GW on advisement.

Japanese (B.A.) — 45 Units

Required Courses (39 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 101</td>
<td>First Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 102</td>
<td>Second Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 103</td>
<td>Third Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 250</td>
<td>Individualized Study of Kanji: Level 1 and Level 2 (Level 1)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 301</td>
<td>Japanese Conversation</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 302</td>
<td>Japanese Reading and Grammar</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 250</td>
<td>Individualized Study of Kanji: Level 1 and Level 2 (Level 2)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 305</td>
<td>Advanced Conversation and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or JAPN 306</td>
<td>Advanced Conversation and Composition II</td>
<td></td>
</tr>
<tr>
<td>JAPN 309</td>
<td>Advanced Readings in Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 510</td>
<td>Modern Japanese Literature</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Electives (6 Units)
on advisement

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Note: In general, it takes two semesters of JAPN 250 to reach the mastery of 1,000 Educational Kanji, which is a prerequisite to JAPN 510.

Complementary Studies

Required of all candidates for the Bachelor of Arts degree in Japanese are 12 units of complementary studies, which must come from courses bearing a prefix other than JAPN, and not cross-listed with JAPN. Complementary Studies for the Japanese major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Japanese (may include MLL-prefix courses);
2. 12 units of course work taken as partial completion of a second major or minor;
3. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
4. 12 units of course work in related disciplines with the prior approval of a Japanese Program advisor.

Related disciplines typically include (but are not limited to) linguistics, literature, humanities, philosophy, history, art, theatre arts, anthropology.
education, international relations, international business, and any aspect of East Asia or Asian Americans. Where a course with a non-JAPN prefix (and not cross-listed with JAPN) is taken as a core requirement or elective for the Japanese major, the said course may also count towards complementary studies (i.e., double-counting allowed).

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

### Social Justice (SJ)

LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferrable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

*For more information, visit the Undergraduate Admissions section.*

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Arts in Japanese Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JAPN 101</td>
<td>First Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>JAPN 102</td>
<td>Second Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
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</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JAPN 103</td>
<td>Third Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
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</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>16-17</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>JAPN 250</td>
<td>Individualized Study of Kanji: Level 1 and Level 2</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>5</td>
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<tr>
<td>Units</td>
<td></td>
<td>14</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>JAPN 250</td>
<td>Individualized Study of Kanji: Level 1 and Level 2</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 301</td>
<td>Japanese Conversation</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 302</td>
<td>Japanese Reading and Grammar</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University GWAR Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Units</td>
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<td>15</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
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<tr>
<td>JAPN 305 or JAPN 306</td>
<td>Advanced Conversation and Composition I or Advanced Conversation and Composition II</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 309</td>
<td>Advanced Readings in Japanese</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
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</table>
### Complementary Studies or SF State Studies or University Elective

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Units</th>
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<tbody>
<tr>
<td>3</td>
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### Seventh Semester

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 401 Topics in Japanese Culture</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives (6 units)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
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</tbody>
</table>

<table>
<thead>
<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>15</td>
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</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 510 Modern Japanese Literature</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives (6 units)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>8</td>
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</table>

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 120-122

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies**
   - Required of all candidates for the Bachelor of Arts degree in Japanese are 12 units of complementary studies, which must come from courses bearing a prefix other than JAPN, and not cross-listed with JAPN. Complementary Studies for the Japanese major can be satisfied via four possible routes:
     1. 12 units in any foreign language other than Japanese (may include MLL-prefixed courses);
     2. 12 units of course work taken as partial completion of a second major or minor;
     3. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
     4. 12 units of course work in related disciplines with the prior approval of a Japanese Program advisor.
   - Related disciplines typically include (but are not limited to) linguistics, literature, humanities, philosophy, history, art, theatre arts, anthropology, education, international relations, international business, and any aspect of East Asia or Asian Americans. Where a course with a non-JAPN prefix (and not cross-listed with JAPN) is taken as a core requirement or elective for the Japanese major, the said course may also count towards complementary studies (i.e., double-counting allowed).
5. In general, it takes two semesters of JAPN 250 to reach the mastery of 1,000 Educational Kanji, which is a prerequisite to JAPN 510.
Minor in Japanese

The Japanese minor consists of 22 units of lower and upper division coursework. Up to 10 units of prerequisite coursework or demonstrated language proficiency is required to begin the minor.

Upper division courses in Japanese are generally conducted in Japanese, and students are expected to use Japanese in their speaking, reading, and writing.

Japanese Minor — 24 units

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 101</td>
<td>First Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 102</td>
<td>Second Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 103</td>
<td>Third Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 250</td>
<td>Individualized Study of Kanji: Level 2 (Level 1)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 301</td>
<td>Japanese Conversation</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 302</td>
<td>Japanese Reading and Grammar</td>
<td>3</td>
</tr>
<tr>
<td>Any upper division JAPN course (except JAPN 510)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Master of Arts in Japanese

Admission to the Program

For admission to the master’s program in Japanese, non-native speakers of Japanese must have a bachelor’s degree either in Japanese or in a field related to the area of intended emphasis, or by demonstrating equivalent knowledge and proficiency in Japanese. Native speakers of Japanese must have a bachelor’s degree (no restrictions on the field).

Applicants must also have:

- a minimum 3.0 GPA;
- demonstrate the proficiency level in Japanese expected at the conclusion of a baccalaureate major in Japanese;
- submit two analytical essays (Statements of Purpose) – one in English (500 words), and the other in Japanese covering the same content stating the relevant past experiences and the reasons for applying to the graduate program at SF State;
- provide one set of transcripts; submit at least two letters of recommendation written in English or Japanese, both of which must be from an individual familiar with the applicant’s academic performance; and
- provide TOEFL scores (for non-native speakers of English only. Photocopies acceptable as long as the admissions office receives sealed scores).

Written English Proficiency Requirements

Level One

Written English proficiency will be evaluated based on the analytical essay (written in English) that is to be submitted as part of the application package.

Level Two

Proficiency is demonstrated by satisfactory completion of a research project, master’s thesis and oral defense, or written and oral comprehensive examinations.

Japanese (M.A.) — Minimum 30 Units

Core Courses for Both Emphases (9 Units)

Select three of the following courses. If all four courses are taken, the fourth one will count as an elective.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 750</td>
<td>Seminar in Japanese Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 800</td>
<td>Seminar in Analysis of Japanese Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 860</td>
<td>Seminar: Topics in Japanese Literature</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 890</td>
<td>Integrative Seminar: Japanese Language and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis (Minimum 18 Units)

Units selected from one of the emphases listed below

Teaching of Japanese as a Foreign Language Emphasis

Select 12 units. If all five courses (JAPN 760, JAPN 765, JAPN 770, JAPN 775, JAPN 780) are taken, the fifth one will count as an elective.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 770</td>
<td>Seminar in Teaching Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 775</td>
<td>Seminar: Materials Development for Teaching Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 780</td>
<td>Practicum in Teaching Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 760</td>
<td>Seminar in Pedagogical Japanese Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or JAPN 765</td>
<td>Second Language Acquisition</td>
<td></td>
</tr>
</tbody>
</table>

Electives

6 units selected on advisement

Professional Applications Emphasis

12 Units selected on advisement from the following (at least 9 units must be at the graduate level)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 350</td>
<td>Introduction to Translation</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 390</td>
<td>Business Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 395</td>
<td>Advanced Business Japanese: Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Edo Culture)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Heian Culture: Culture of Peace)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Japanese Identity)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Tea Ceremony and Tea Culture)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Japanese Way of Living)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Life and Thought of Medieval Japan)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (Modern Cultural History of Japan)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 510</td>
<td>Modern Japanese Literature</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 590</td>
<td>Topics in Japanese Literature (Japanese Women Writers)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 590</td>
<td>Topics in Japanese Literature (Contemporary Japanese Literature)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 690</td>
<td>Introduction to Consecutive Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 710</td>
<td>Japanese Language Workshops (Magazines &amp; Periodicals)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 710</td>
<td>Japanese Language Workshops (Newspapers)</td>
<td>3</td>
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</tbody>
</table>
JAPN 710  Japanese Language Workshops (Current Topics: Radio and Television)  3
JAPN 710  Japanese Language Workshops (Interpretation Workshop)  3
JAPN 710  Japanese Language Workshops (Translation Workshop)  3
JAPN 765  Second Language Acquisition  3
JAPN 860  Seminar: Topics in Japanese Literature (Seminar in Modern Japanese Literature)  3
JAPN 860  Seminar: Topics in Japanese Literature (Hyakunin Isshu: 100 Poems by 100 Poets)  3
JAPN 860  Seminar: Topics in Japanese Literature (The Tale of Genji and No Plays)  3

Selected courses with approval of graduate advisor

Electives
6 units selected upon advisement (Japanese courses or courses from other departments)

Culminating Experience Requirement (3 Units)
Select one of the following options:
- JAPN 895  Applied Research Project (and Oral Defense)  3
- JAPN 898  Master's Thesis (and Oral Defense)

Master's Comprehensive Oral and Written Examinations (which will cover 4 fields: Japanese Culture, Linguistics, Literature, and the student's field of interest, such as Japanese business and education).

Applied Research Project or Thesis
If the master's degree is not earned within two semesters of enrolling in a culminating experience course (JAPN 895 or JAPN 898), students must maintain continuous enrollment by taking a "zero unit" course in the College of Extended Learning (LCA 499) until the project or thesis is completed.

Comprehensive Examinations
Student are admitted to the oral examination upon passing the written examination. Both examinations may not be attempted more than two times.
Modern Languages and Literatures—Persian

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 413
Phone: (415) 338–3121
Chair: Mohammad Salama

Coordinator: Mitra Ara
Email: persian@sfsu.edu
Website: mll.sfsu.edu/persian-program/ (http://mll.sfsu.edu/persian-program)

Program Scope
The Minor in Persian Studies is a multidisciplinary program for students seeking greater knowledge and understanding of Persian/Iranian language, culture, history, society, and politics from ancient to contemporary times.

Especially when coupled with competence in the Persian language, the minor will be useful to students planning careers in such fields as university teaching, businesses of various sorts, international organizations, government agencies, and diplomatic service.

The minor consists of 18–22 units. A core of one five-unit course and three three-unit courses, or four three-unit courses, and an elective group of two three- or four-unit courses will complete the minor, with at least one course focusing on Pre-Islamic periods and at least one course focusing on the Post-Islamic periods.

Minor
• Minor in Persian Studies (p. 936)

Minor in Persian Studies

Program of Study
Requirements
PRSN 101 and PRSN 260 are required, though PRSN 101 will be waived for students who can demonstrate proficiency in the fundamental skills of listening, reading, speaking and writing Persian.

Students who take PRSN 101 will select two additional courses from a list of three core courses and students who test out of PRSN 101 will take all three of those courses. Students also complete two courses chosen from the list of elective courses or other courses approved by a minor advisor. At least one course must focus on pre-Islamic periods (indicated by 1) and at least one course must cover post-Islamic periods.

Persian Studies, Minor — 18 – 22 units

Core Courses (12 – 14 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRSN 101</td>
<td>First Semester Persian</td>
<td>5</td>
</tr>
<tr>
<td>PRSN 260</td>
<td>Persian Culture and Civilization in English</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who have completed PRSN 101 will choose two courses from the following list of three courses; students who have tested out of PRSN 101 are required to complete all three courses.

Elective Courses (6 – 8 units)
Select from the following courses upon advisement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CWL 430</td>
<td>Heroic Tales of the Mediterranean</td>
<td>3</td>
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<tr>
<td>HIST 604</td>
<td>Islamic World I: 500 - 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 605</td>
<td>Islamic World II: 1500 - present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 606</td>
<td>History of Iran and Afghanistan 1500 - Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 607</td>
<td>Imperialism and Nationalism in the Recent Near East</td>
<td>3</td>
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<tr>
<td>HUM 361</td>
<td>Cultural Expression in Islam</td>
<td>3</td>
</tr>
<tr>
<td>I R 323</td>
<td>The Persian Gulf in International Relations</td>
<td>4</td>
</tr>
<tr>
<td>MUS 530</td>
<td>Musics of the Middle East and India</td>
<td>3</td>
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<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 517</td>
<td>Islamic Mysticism</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 206</td>
<td>Basic Persian Conversation</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 250</td>
<td>Intermediate Persian</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 350</td>
<td>Advanced Persian</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 411</td>
<td>Persian Media in English</td>
<td>3</td>
</tr>
<tr>
<td>PRSN 500</td>
<td>Introduction to Persian Literature</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 410</td>
<td>Middle East Politics</td>
<td>4</td>
</tr>
</tbody>
</table>
Modern Languages and Literatures—Russian

College of Liberal & Creative Arts

Dean: Andrew Harris

Department of Modern Languages and Literatures

Humanities Building, Room 475
Phone: (415) 338-1421
Email: russian@sfsu.edu
Website: mll.sfsu.edu/russian-program/ (http://mll.sfsu.edu/russian-program)

Chair: Mohammad Salama
Undergraduate Advisor: Natalia Tkachov

Program Scope

The Russian program offers lower division language courses (RUSS 101 – RUSS 103) and courses in advanced language, conversation, composition, culture, and civilization as well as a considerable range of literature—both in Russian and in English translation—comprising a minor that will enhance a wide range of majors in various disciplines. In this post-Soviet era the study of Russian language and culture, and the knowledge of the country as a whole, becomes even more imperative. Students are either frequently visiting Russia or working there for an extended period of time. In addition, there is now a greater availability of Russian archival material to Western students, researchers, and scholars.

The minor in Russian consists of 23 units of lower and upper division coursework. Up to 13 units of prerequisite coursework or demonstrated language proficiency is required to begin the minor.

Minor

• Minor in Russian (p. 937)

Minor in Russian

Russian Minor — 23 units

Required Course (17 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 103</td>
<td>Third Semester Russian</td>
<td>5</td>
</tr>
<tr>
<td>RUSS 260</td>
<td>Russian Culture and Civilization in English</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 305</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 307</td>
<td>Advanced Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 511</td>
<td>Russian Literature II in English</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6 units)

on advisement (all must be upper division courses)
Modern Languages and Literatures—Spanish
College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Modern Languages and Literatures
Humanities Building, Room 475
Phone: (415) 338-1421
Website: mll.sfsu.edu/spanish-program (http://mll.sfsu.edu/spanish-program)
Chair: Mohammad Salama
Program Coordinator: Michael Hammer
Undergraduate Advisors: Gustavo Calderón (A–H), Michael Hammer (I–P), Fermin Rodriguez (Q–Z)
Graduate Advisor: Fermin Rodriguez

Program Scope
The Spanish program offers a Bachelor of Arts, a minor, and a Master of Arts in Spanish. At the undergraduate level, the classes in linguistics, culture, and civilization are aimed at improving one’s understanding of the language and the people who speak it.

An ever increasing Spanish-speaking population has made Spanish the second most spoken language in the state of California and other states of the Union. The study and knowledge of this language, therefore, offers career alternatives in practically all fields of work and is an asset when seeking employment.

Professor
Calderón

Associate Professor
Hammer

Assistant Professor
Palomino

Major
• Bachelors of Arts in Spanish (p. 938)

Minor
• Minor in Spanish (p. 945)

Masters
• Master of Arts in Spanish (p. 945)

Bachelor of Arts in Spanish

Preparation for the Major
The Spanish major consists of 30 units of upper division coursework. Up to 16 units of prerequisite coursework or demonstrated language proficiency is required to begin the major.

Proficiency can be demonstrated by completing the necessary lower-division courses, testing out of them, or by taking the placement test.

All upper division courses are conducted in Spanish, and students are expected to use Spanish in their speaking, reading, and writing.

It is also recommended that students complete SPAN 301 (Advanced Grammar and Composition) prior to taking upper division courses in language and literature.

Writing in the Major: Students must complete the University’s GWAR requirement by taking SPAN 401GW, MLL 400, or CWL 400GW.

Spanish (B.A.) — 30 units

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 341</td>
<td>Introduction to the Reading of Literary Texts</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 401GW or SPAN 405</td>
<td>Culture and Civilization of Spain-GWAR or Culture and Civilization of Spanish America</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 595</td>
<td>Senior Survey in Spanish or Spanish American Literature (taken once during senior year)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (18 units)
Choose any six courses in Spanish numbered 300 to 699. At least three of these courses must be at the 400 level or above.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies
Required of all candidates for the Bachelor of Arts degree in Spanish are 12 units of Complementary Studies, which must come from courses bearing a prefix other than SPAN, and not cross-listed with SPAN. Complementary Studies for the Spanish major can be satisfied via four possible routes:

1. 12 units in any foreign language other than Spanish (may include up to 3 units of MLL prefix courses);
2. 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
3. 12 units of course work taken as partial completion of a second major, a minor, or a certificate;
4. 12 units of course work in related disciplines with the approval of a Spanish Program advisor.

Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of Spain, Latin America, or Latino/Latina Studies.

Where a course with a non-SPAN prefix, and not cross-listed with SPAN, is taken as a core requirement or elective for the Spanish major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the second Major, Minor, or Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL-prefix courses between Spanish major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.
Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM) | LD or UD | 3
- Environmental Sustainability (ES) | LD or UD | 3
- Global Perspectives (GP) | LD or UD | 3
- Social Justice (SJ) | LD or UD | 3

Note: LD = Lower Division; UD = Upper Division.

### Transfer Student Roadmap (2 Year)

For students with an AA-T in Spanish. This roadmap opens in a new tab. (p. 943)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Spanish

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
- a course in U.S. & California Government
- a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CALEP examination(s) for details regarding the award of credit for AP/IB/CALEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Spanish Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 30

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 101</td>
<td>First Semester Spanish</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>Second Semester Spanish</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td>SPAN 216</td>
<td>Accelerated Grammar, Conversation, and Reading</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>Lower Division Spanish Course – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>SPAN 301</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>Electives (18 units) ⁵</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>14</td>
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<tr>
<td>SPAN 305</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 306</td>
<td>Advanced Reading and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>Electives (18 units) – Take Two ⁵</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
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<td><strong>Seventh Semester</strong></td>
<td></td>
<td>15</td>
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<tr>
<td>SPAN 341</td>
<td>Introduction to the Reading of Literary Texts</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ GE Area A: Oral Communication (A1) or Critical Thinking (A3)  
² GE Area A: Written English Communication (A2)  
³ GE Area B: Physical Science (B1) and Laboratory Science (B3)  
⁴ Complementary Studies or SF State Studies or University Elective  
⁵ Electives (18 units)
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 401GW or SPAN 405</td>
<td>Culture and Civilization of Spain-GWAR or Culture and Civilization of Spanish America</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 500</td>
<td>Introduction to Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>Electives (18 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Eight Semester</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>SPAN 595</td>
<td>Senior Survey in Spanish or Spanish American Literature</td>
<td>3</td>
</tr>
<tr>
<td>Electives (18 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

**Complementary Studies**

Required of all candidates for the Bachelor of Arts degree in Spanish are 12 units of Complementary Studies, which must come from courses bearing a prefix other than SPAN, and not cross-listed with SPAN. Complementary Studies for the Spanish major can be satisfied via four possible routes:

- 12 units in any foreign language other than Spanish (may include up to 3 units of MLL prefix courses);
- 12 units of course work taken in an approved study abroad program (including CSU Study Abroad and SF State Bilateral);
- 12 units of course work taken as partial completion of a second major, a minor or a certificate;
- 12 units of course work in related disciplines with the approval of a Spanish Program advisor.

Related disciplines typically include linguistics, literature, philosophy, history, education, and any aspect of Spain, Latin America, or Latino/Latina Studies.

Where a course with a non-SPAN prefix, and not cross-listed with SPAN, is taken as a core requirement or elective for the Spanish major, the said course may also (double) count towards Complementary Studies only via the Study Abroad option or the second Major, Minor, or Certificate option listed above. Students satisfying Complementary Studies through the Foreign Language option are allowed a maximum of three units of overlap of MLL-prefix courses between Spanish major and Complementary Studies units. Students satisfying Complementary Studies through the Related Subjects option are not allowed to double-count major and Complementary Studies units.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

**Electives (18 units)**

Choose any six courses in Spanish numbered 300 to 699. At least three of these courses must be at the 400 level or above.
Bachelor of Arts in Spanish – SPAN Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Spanish with 60 units in transfer. All prerequisites for the major and lower division GE requirements have been satisfied. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 301</td>
<td>Advanced Grammar and Composition ¹</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met before transfer.</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 341</td>
<td>Introduction to the Reading of Literary Texts</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 401GW or SPAN 405</td>
<td>Culture and Civilization of Spain-GWAR ², or Culture and Civilization of Spanish America</td>
<td>3</td>
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<tr>
<td>Major Elective – Take Two</td>
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</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
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<tr>
<td>University Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 595</td>
<td>Senior Survey in Spanish or Spanish American Literature</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ SPAN 301 is recommended for all students in the major prior to taking upper division courses, and is a prerequisite for composition/linguistics courses.

² MLL 400GW and CWL 400GW are additional options to fulfill the GWAR requirement. Students who opt to take one of these courses instead of SPAN 401GW must be sure to complete SPAN 405.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer.
- Upper division GE, areas B, C and D (9 units)
- Students entering this major with the AA-T in Spanish are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Spanish Major: 30 Units**
- Major requirements (12 units)
- Electives (18 units): select from SPAN courses 300-699; a minimum of three courses must be 400 level or higher.

**University Electives: 12 or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Minor in Spanish

Spanish Minor – 21 units

Required Courses (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLL 325</td>
<td>Linguistics for Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 341</td>
<td>Introduction to the Reading of Literary Texts</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 401GW</td>
<td>Culture and Civilization of Spain-GWAR</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>SPAN 405 Culture and Civilization of Spanish America</td>
<td></td>
</tr>
</tbody>
</table>

Electives (12 units)

Choose four Spanish courses, three of which must be at the upper division level (300 or above).

Master of Arts in Spanish

The M.A. program in Spanish is mostly focused on Spanish and Latin American literature and culture from the Middle Ages to the present. Over the course of their graduate studies in Spanish, students acquire a solid grounding in major works of poetry, prose, and theater, as well as the tools necessary to approach these works critically. All courses in the Spanish program are taught in Spanish. For more information, please see the graduate program website at http://spanish.sfsu.edu/graduate-program.

Admission to the Program

In addition to the requirements established by the University and the Department of Modern Languages and Literatures, a student must also meet the following admission requirements established by the Spanish M.A. Program.

1. All applicants are expected to have the equivalent of a B.A. in Spanish, that is, 30 units of upper division work in Spanish, with a GPA of 3.0 or better. If the student has not met this requirement, he or she may, at the discretion of the Program, be admitted as a "conditionally classified" graduate student. Students thus admitted must satisfactorily complete a number of specified courses before they become fully classified. These courses are not included in the 30 units required for the Masters.
2. Applicants must arrange for two letters of recommendation to be sent to the program.
3. Applicants must demonstrate to the Spanish faculty a record of prior scholastic achievement indicative of potential success as a graduate student. This means that applicants must submit a brief writing sample (essay) in Spanish or English which shows the scope of the applicant’s critical preparation and analytical ability. Ideally, this will be a 1,000 to 1,200 word paper written in an undergraduate class.
4. Applicants must also submit two copies of a brief statement of purpose (500 words), one written in English, the other in Spanish.
5. Applicants are responsible for meeting the appropriate deadlines. Materials sent directly to the Spanish Program must be postmarked by April 1 to be considered for fall admission, or by October 1 to be considered for spring admission.

Spanish (M.A.) – Minimum 30 Units

Graduate Courses (15 Units)

Graduate courses in Spanish (700–800 level)

Upper Division/Graduate Courses (6 Units) (500–899)

Elective Courses (9 Units)

At least eight courses (24 units) must be taken within the program, and up to six units from a related field may be counted for the degree. Any courses taken outside the Spanish Program must have prior approval of the Graduate Advisor.

Written English Proficiency

Since the Master’s Comprehensive Written and Oral Examinations are in Spanish, students must fulfill the Level-Two English requirement by passing MLL 701 with a B or higher. Students who do not receive at least a B must retake the course.

Examinations

The semester before a candidate plans to take the Spanish comprehensive written and oral examinations, he or she should contact the graduate advisor in order to arrange for a screening interview. By the time of the screening interview, the student should have read all of the books on the reading list. The screening committee assesses the candidate’s preparation and advise him or her on any areas of study that need more attention before the examinations. Candidates will NOT be screened until they have satisfied the English proficiency requirement.

The student is admitted to the oral examination upon passing the written examination. The exam consists of five questions on Spanish and Latin American literary topics. The grading scale ranges from 0–5 points. Students must receive a minimum of two points on each question and must receive at least 15 total points to pass the exam. Both examinations may be attempted a maximum of two times. For more information, please see the program website at http://spanish.sfsu.edu/exam-policy.
MUSEUM STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Art
Director: Gail Dawson

Museum Studies Program
Fine Arts Building, Room 293
Phone: (415) 338–2176
Fax: (415) 338–6537
Email: museumst@sfedu.edu
Website: museumst.sfedu.edu (http://museumst.sfedu.edu)

Director and Graduate Coordinator: Edward M. Luby

Mission
The mission of the Museum Studies Program is to develop future museum professionals through highly structured coursework in a setting where museums’ educational efforts, collections, and interactions with the community are of central concern. Students are engaged in a 21st-century landscape, where responsiveness to the significant changes taking place in the museum profession are integrated into curriculum, activities and professional development.

Program Scope
The Museum Studies Program offers an undergraduate minor and a terminal Master of Arts (M.A.) degree. The Museum Studies Minor is rigorous, interdisciplinary, and pre-professional in nature. Coursework emphasizes acquiring knowledge in museum practice and theory to understand the public service role of museums and to apply this knowledge to support the work of museums in creating exhibits, educating the public, and caring for collections, through collaborative efforts.

The M.A. in Museum Studies is unique to SF State, and the only one of its kind in a public university in the state of California, either in the California State University or the University of California systems. The M.A. degree is designed to provide professional training in major areas of museum work—Museum Management & Fundraising, Curatorship, Registration/Collections Management, Exhibition Design, Cultural Property Law and Protection, and Museum Education & Public Programming.

Facilities
The program supports a museum with permanent collections of cultural and ethnographic artifacts. The Global Museum, located in the Fine Arts building, is volunteer-operated and admission is free. Museum Studies students staff the museum and produce all exhibitions and related educational and public programming. Other facilities include a specialized lab, teaching space, and collections storage.

Career Outlook
Alumni of the Museum Studies Program have found employment at all career levels in museums of all sizes and types throughout the U.S. The Museum Studies Program partners with the School of Art, Special Collections at the Leonard Library, and other units on campus on projects and courses that prepare students for employment in all types of museums, cultural arts centers, arts commissions, historical sites and houses, science centers, environmental education centers, libraries with exhibition programs, exhibit design firms, auction houses, planetaria, aquariums, zoos, and botanical gardens.

Learning Outcomes

Minor Program
1. Acquire and combine general education skills with relevant knowledge and information on museum practice and theory to understand and discuss the public service role of museums in a multicultural world
2. Apply knowledge of museum practice and theory as a pre-professional to support the work of museums in creating exhibits, educating the public, caring for collections, and serving the public, through collaborative work
3. Use written, oral, and critical thinking skills to apply knowledge of museum practice and theory to evaluate the work of museums
4. Acquire knowledge of museum practice and theory to serve as an advocate for the role of museums as centers of education, community, and preservation

M.A. Program
1. Identify the core features of museum professionalism (ethical codes, professional societies, interpersonal skills, team work, career development resources).
2. Outline the broad history of museums, their core organizational features, and basic museum theory.
3. Acquire knowledge of key areas in museum research and practice, specifically in: collections care and registration; museum management and fundraising; and exhibition design.
4. Depending upon their emphasis, students will acquire knowledge of at least one of the areas in museum research and practice: curatorship; cultural property law and protection; museum education.
5. Depending upon their emphasis, students will acquire or have the option of acquiring in museum research and practice in the areas of audience development, digital asset management, global operations, or conservation.
6. Conduct independent research that leads to either a written thesis or an exhibit component.

Professor
Luby

Lecturers
Alexander, Alper, DeMouthe, Fogarty, Franklin, Jiménez, Kienzle

Minor in Museum Studies
The Museum Studies Minor is rigorous, interdisciplinary, and pre-professional in nature. Coursework emphasizes acquiring knowledge in museum practice and theory to understand the public service role of museums and to apply this knowledge to support the work of museums in creating exhibits, educating the public, and caring for collections, through collaborative efforts. Students gain a useful set of pre-professional skills in museum practice, relevant information about museum theory and history, and learn about future careers in museums and informal educational settings. Written, oral and, critical thinking skills are developed to evaluate the work of museums.

The Museum Studies Minor will prepare students for the terminal M.A. degree in Museum Studies, or for additional on-the-job training for work in museums. Graduates will appreciate the role and power of museums in
the world as centers of learning, enjoyment, and community engagement, and as stewards of cultural and natural heritage.

Admission to the Minor is open to all students with upper division standing and who have completed M S 201 and M S 202 with a minimum grade of C.

**Museum Studies Minor – 18 units**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>M S 201</td>
<td>Introduction to the History and Development of Museums</td>
<td>3</td>
</tr>
<tr>
<td>M S 202</td>
<td>Introduction to Museum Exhibits</td>
<td>3</td>
</tr>
<tr>
<td>M S 310</td>
<td>Introduction to Museum Education Methods and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>M S 681</td>
<td>Museum Studies Lab</td>
<td>3</td>
</tr>
<tr>
<td>M S 682</td>
<td>Capstone Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Plus one course selected in consultation with an advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Museum Studies M.A. – Minimum 33 units**

The Museum Studies M.A. is designed to provide professional training in major areas of museum work—Museum Management & Fundraising, Curatorship, Registration/Collections Management, Exhibition Design, Cultural Property Law and Protection, and Museum Education & Public Programming.

The program builds upon students’ previous academic studies in museum-related disciplines by emphasizing practical experience, professionalism, and important developments in the field of Museum Studies. Museum Studies students include mid-career museum professionals, people from other professional career fields, and recent B.A. graduates.

**Core Requirements (9 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>M S 700</td>
<td>History and Organization of Museums (required during first semester of program)</td>
<td>3</td>
</tr>
<tr>
<td>M S 860</td>
<td>Fundraising in Museums</td>
<td>3</td>
</tr>
<tr>
<td>M S 880</td>
<td>Museum Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area Requirements (9 units)**

Select 3 units of coursework from each of the following three groups:

**Collections Care and Conservation**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>M S 740</td>
<td>Museum Conservation and Restoration</td>
<td></td>
</tr>
<tr>
<td>M S 794</td>
<td>Museum Collections Management and Registration</td>
<td></td>
</tr>
<tr>
<td>M S 791</td>
<td>Integrated Pest Management in Heritage Facilities</td>
<td></td>
</tr>
<tr>
<td>M S 792</td>
<td>Museum Security Systems</td>
<td></td>
</tr>
<tr>
<td>M S 793</td>
<td>Museum Facilities Management</td>
<td></td>
</tr>
</tbody>
</table>

**Museum Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>M S 800</td>
<td>Museum Management, Law, and Ethics</td>
<td></td>
</tr>
<tr>
<td>M S 830</td>
<td>Museum Governance</td>
<td></td>
</tr>
<tr>
<td>P A 745</td>
<td>Perspectives on Nonprofit Management</td>
<td></td>
</tr>
</tbody>
</table>

**Exhibition Design**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 619</td>
<td>Exhibition Design</td>
<td></td>
</tr>
<tr>
<td>M S 720</td>
<td>Museum Curatorship and Collecting</td>
<td></td>
</tr>
<tr>
<td>M S 730</td>
<td>Museum Exhibition Planning and Design</td>
<td></td>
</tr>
</tbody>
</table>

**Area Emphasis (12 units)**

Select four electives relevant to the following areas. No more than 6 units of non-museum studies courses may count towards electives in the area emphasis. Courses must be chosen in consultation with a museum studies faculty advisor.

- Curatorship
- Exhibition Design
- Cultural Property Law and Protection
- Museum Management and Fundraising
- Museum Education and Public Programming
- Registration/Collections Management

**Culminating Experience Requirement (3 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>M S 894</td>
<td>Creative Work Project</td>
<td>3</td>
</tr>
<tr>
<td>or M S 898</td>
<td>Master's Thesis</td>
<td></td>
</tr>
</tbody>
</table>

If the thesis or creative work project is not completed during the semester the student is enrolled in M S 894 or M S 898, the student is required to enroll in M S 897, a continuation course, in the third semester following their initial enrollment in M S 894 or M S 898. If the thesis or creative work project is not completed at the end of the third semester, students are required to enroll in the College of Extended Learning’s course, LCA 499 “Culminating Experience Continuous Enrollment,” and must maintain continuous enrollment in LCA 499 each fall and spring semester thereafter until graduation or until the department’s five-year deadline for completing the degree.

**Admission to the M.A. Program**

Students are admitted to the program for fall terms only. To be admitted to classified status, a student must meet all general University requirements. No more than 6 units of work taken in post-baccalaureate status are transferable to M.A. degree credit in the museum studies program.

To be eligible for consideration, applicants must:

- Have an undergraduate degree from an accredited college or university in one of the following or related fields: anthropology, archaeology, art history, classics, design, education, history, biological or physical sciences, or public/art administration. Additional museum experience beyond the minimum required is expected when a student has a degree in a field not listed.
- Have at least a minimum grade point average of 3.20 in the last 60 semester units of upper-division courses completed.
- Be able to demonstrate understanding of the work and profession of museum studies, gained through paid or volunteer experience (minimum of six months) in a museum or related setting. Experience can be completed prior to or concurrent with application to the program.
- Submit to the Museum Studies program two letters of recommendation from faculty or supervisors knowledgeable of the applicant’s academic or professional ability. At least one of these letters should be from a museum supervisor.
- Submit to the Museum Studies program a current résumé and written statement of purpose, outlining background, intentions, and goals as specified in the program’s admissions procedures. Each applicant is encouraged to specify as closely as possible the emphasis s/he wishes to pursue.
• Send one set of transcripts of all prior academic work directly to the Museum Studies program. Another set is required by the university graduate admissions office.
• Submit GRE scores with a minimum of 4.5 or better on the analytical writing section, and 156 or better on the verbal reasoning section. Past scores will be accepted if taken within five years of the semester the applicant wishes to attend.
• Submit a paper TOEFL score of at least 550 or a computer-based score of 80 to the graduate admissions office, if an international applicant is from a non-English speaking country.

Applications for admission are due February 1. Domestic applicants may be contacted by the Museum Studies program for interviews only if needed, and, if application files are complete and received by February 1.

**Written English Proficiency Requirement**
The University has a requirement for written English proficiency that is to be assessed at two different points in a student’s program.

**Level One (must be met prior to admission)**
GRE scores with a minimum of 4.5 or better on the analytical writing section, and a 156 or better on the qualitative section.

**Level Two (toward the end of the program)**
Grade of B+ or above on final research papers for M S 700 or M S 860.

**Advancement to Candidacy**
Besides meeting all general requirements for advancement to candidacy, applicants must, in addition, have completed with a grade of B or better each of the following courses: M S 700 and M S 880.
College of Liberal & Creative Arts
Dean: Andrew Harris

School of Music
Creative Arts Building, Room 141
Phone: (415) 338–1431
Website: music.sfsu.edu (http://music.sfsu.edu)

Program Coordinator: Cyrus Ginwala
Director: Cyrus Ginwala (Interim)
Undergraduate Advisors: Brandes, Ginwala, Hanna, Hogarth, Modirzadeh, Neve, Speight, Suzuki, Todorov, Woodward
Graduate Coordinator: Cyrus Ginwala

Program Scope
The School of Music offers both professional and liberal arts degree programs in music as well as courses that enrich the general education and cultural life of the University. The Bachelor of Arts in Music provides a humanistic approach to the study of music as a significant part of human tradition and culture. The Bachelor of Music is an intensive curriculum for qualified advanced undergraduate students seeking to attain professional levels of expertise in a specialized music discipline.

The Master of Arts in Music and Master of Music degree programs provide an advanced education for students with an undergraduate degree in music wishing to gain additional expertise in specific areas of music. The Master of Arts in Music program is for students who have highly developed interest and achievement in specific areas of music study; an interest in teaching as music faculty in two- and four-year colleges; are K–12 teachers seeking additional expertise in specific areas of music that will enhance their skills and knowledge as music educators; or, are seeking preparation for professional careers in composition, including for film and video games. The Master of Music provides graduate study for the superior performer with the goal of maximum development of specialized skills. Either the Master of Arts in Music or Master of Music degree programs can be appropriate for students who have the goal of advanced graduate study at the doctoral level.

The School also offers two minors in music: a liberal arts minor, that provides a planned sequence of musical development from which future enjoyment and learning can proceed, and a minor in World Music and Dance, which is interdisciplinary in character.

A variety of individual and ensemble music performance opportunities are available to all SF State students, including Wind Ensemble, Jazz Band, University Symphony, Chamber Singers, Afro-Cuban Ensemble, and Women’s Chorus. A number of small and specialized vocal and instrumental ensembles that are part of the Chamber Music, Jazz and Creative Music programs are also available. The School also participates in opera and musical-theatre productions in cooperation with the School of Theatre and Dance.

Scholarships in music are available and awarded based on musical and scholastic achievement and musical promise. Many of these scholarships are designated for specific fields of study while others are open to music majors in any field of study. Auditions for scholarships are held two to four times each year. Students must schedule an appointment to audition for a scholarship. For further information and an application, contact the School of Music.

San Francisco State University has been an accredited institutional member of the National Association of Schools of Music since 1963.

Faculty and Facilities
Faculty in the School of Music includes internationally recognized performers, composers, music educators, authors and research scholars. Each faculty member has a strong commitment to students and brings their knowledge and expertise into the process of teaching and learning music. The world-renowned Alexander String Quartet is quartet-in-residence at SF State. The members of the quartet are faculty in the School and coordinate, along with other faculty, our unique Chamber Music program. To meet our faculty, please visit the School of Music website at: http://music.sfsu.edu.

The Music Program is housed in the Creative Arts Building. Facilities include McKenna and Knuth Theatres, seating 701 and 322 respectively; three piano laboratories; choral and instrumental ensemble rehearsal space; classroom and practice facilities; a music materials resource center containing instruments and scores; an electronic music laboratory; and a music computer lab with more than 20 workstations.

The J. Paul Leonard Library provides music listening facilities; computer access; and an extensive collection of scores, recordings, and books on music. The Frank V. de Bellis Collection of Italian culture, located on the fourth floor of the library, contains historic musical instruments, rare books, musical manuscripts, and scores and archival sound recordings.

Career Outlook
Career options for music majors are very diverse. The analytical, concentration and listening skills, collaborative experiences, and broad historical and cultural knowledge gained through the study of music prepare students to achieve in many professional arenas. Their individual achievements may lead them into specific professional fields of music, including performance, composition, scholarship, teaching, or into another profession that can benefit from the knowledge and skills gained in music study.

Graduates of SF State University music programs currently perform as soloists or as members of symphony orchestras, opera, chamber ensembles, choruses, rock groups, jazz combos, and a variety of intercultural ensembles. They conduct Broadway musicals, church choirs, community choruses, commercial music, operas, and symphony orchestras. Some work as composers, arrangers and producers in a wide-variety of musical environments, write recording and program notes, serve as music librarians, design and work with music technology, and work as critics and lecturers. Others teach music at every educational level from pre-school through university in independent studios and in public and private schools and colleges. They occupy key positions as music administrators and provide leadership for professional music organizations. School of Music graduates have also gone on to careers outside of music in fields as diverse as medicine, business and law. Whatever their chosen career path, the education our graduates received has provided the educational foundation they needed to provide a life filled with meaning and professional accomplishment. Wherever their careers have taken them, they continue to create, perform, analyze, write about, lobby for, and listen to music both for profit and for pleasure.

Undergraduate Programs in Music
All students wishing to pursue a major in music must pass both a performance audition on an instrument or voice, and demonstrate competency in music theory, aural and piano skills sufficient for
successful music study at a four-year university. The performance auditions must establish that the individual possesses music achievement adequate to effectively engage in musical performance in the School of Music. Students who pass the performance audition may demonstrate competency in music theory, aural skills and piano either through passing placement examinations or completing specific coursework at San Francisco State University. Auditions and placement examinations are given at least twice each year. Students may only audit or take placement examinations twice.

Students who pass the performance audition but fail the placement examinations in aural skills and music theory must take MUS 130 during their first semester as music students in School of Music. A grade of C or better in MUS 130 is required to satisfy the aural skills and music theory standards required to proceed in either the Bachelor of Arts in Music or the Bachelor of Music degree programs. Students who fail the placement exam in piano may complete MUS 201. A grade of C or better in MUS 201 is required to satisfy the piano standards for admission to either the Bachelor of Arts in Music or the Bachelor of Music degree programs. While satisfying aural skills, music theory and piano degree program admissions standards, students who pass their performance audition are expected to enroll in other music courses that will apply toward university degree requirements. These courses include performance ensembles and MUS 150. Please consult with your assigned music advisor about appropriate choices.

Many music courses are available to students admitted to the Bachelor of Arts or Bachelor of Music degree programs. Certain music courses, taken to satisfy deficiencies identified by placement examinations in aural skills, music theory, and piano, may not count as part of a Bachelor of Arts in Music or Bachelor of Music degree program.

All music majors are assigned a faculty advisor with whom they confer each semester to develop an appropriate program of study.

Individual instrumental and vocal applied lessons are restricted to music majors who have passed the performance audition and the aural skills and music theory placement examinations. Participation in an ensemble is required of all students enrolled in applied lessons. Students enrolled in individual voice or instrumental instruction are required to enroll in 1 unit of appropriate ensemble for each half-hour of private instruction received. Ensemble enrollments must be approved by the faculty advisor in order for them to satisfy this requirement. (See individual program requirements for the maximum number of ensemble units, MUS 371 – MUS 390, applicable to degree requirements.) Students must also maintain full-time enrollment in order to qualify for individual instruction. There are a limit to the total number of individual lessons each student may receive, depending on the degree program in which the student is enrolled. Students who fail or withdraw from required pre-requisite or co-requisite musicianship, theory or ensemble courses, will lose eligibility for individual applied lessons until academic requirements in those pre-requisite or co-requisite courses have been satisfied.

Graduate Programs in Music

The School of Music offers a Master of Arts in Music with emphases in composition, music education, or music history; and a Master of Music in Performance with emphases in vocal or instrumental performance, chamber music, or conducting (choral or instrumental).

Professors

Festinger, Hanna, Modirzadeh, Neve, Todorov, Woodward, Xiques

Associate Professors

Giwala, Suzuki

Assistant Professors

Brandes, Hogarth, Sabey

Lecturers

Speight, Alexander String Quartet (Grafilo, Lifitsz, Walsh-Wilson, Yarbrough)

Majors

- Bachelor of Art in Music (p. 950)
- Bachelor of Music (p. 957)

Minors

- Minor in Music (p. 966)
- Minor in World Music and Dance (p. 1032)

Masters

- Master of Arts in Music (p. 966)
- Master of Music (p. 967)

Bachelor of Arts in Music

The Bachelor of Arts in Music provides a humanistic approach to the study of music as a significant part of human tradition and culture. This degree program provides broad liberal arts preparation with significant study in music. The structure of the degree program offers students several avenues to pursue individual interests in music as preparation for careers in music or music-related fields. Students may choose the recommended emphases in Classical, Jazz, Electronic Music, or Creative Music Studies. Students with other music-related career interests may also design and complete an elective emphasis more appropriately focused, with the approval of the School of Music.

Preparation for the major involves competency and/or course work requirements in theory, ear training, and piano.

Performance achievement in one applied area (voice, piano, or instrumental major) is an expected component of the Bachelor of Arts degree program. Students must develop, with their faculty advisor, a school approved program that will provide for clear demonstration of musicality and musicianship appropriate to a liberal arts degree in music in their area of emphasis. Students whose major performance medium is voice are strongly recommended to take Class Voice to achieve performance competence.

Music (B.A.) – 45 units

Lower Division Core Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 150</td>
<td>Concert Music (each semester in residence up to and including eight semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 201</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II</td>
<td>1</td>
</tr>
<tr>
<td>or MUS 206</td>
<td>Beginning Jazz/Pop Piano</td>
<td></td>
</tr>
<tr>
<td>MUS/TH A 221</td>
<td>Fundamentals of Ear Training and Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 222</td>
<td>Fundamentals of Ear Training and Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>or MUS 270</td>
<td>Improvisation</td>
<td></td>
</tr>
</tbody>
</table>
students must complete an additional 19 units of coursework. Based on

Upper Division Core Courses (11 Units)
Students may not enroll in upper upper division courses in music until
all lower-division courses have been completed with a grade of C or
better. These courses must be completed no later than the end of the first
semester of the junior year.

MUS 420 20th Century Techniques 3
or MUS 440 Jazz Harmony

MUS 433 Introduction to Music Technology 2
MUS 542GW Ethnomusicology - GWAR 3
MUS 598 Senior Thesis 3

Area of Upper Division Emphasis Electives (19 units)
To fulfill the requirements of the major in the Bachelor of Arts in Music, students must complete an additional 19 units of coursework. Based on
their interests, along with mandatory faculty advising every semester, students select courses to build an emphasis area, of which several are
most common: Classical, Jazz, Popular, Creative/World, Electronic Music,
and Historical Keyboard. Advising sheets are available from the Music
Office and Faculty Advisors.

Theory/Practice
Six to seven units selected from MUS 405–477 (p. ) (with the
exception of core courses).

History/Literature
Six to seven units selected from MUS 501–599 (p. ) (with the
exception of MUS 542GW).

Instruction/Ensembles
Six to seven units selected from MUS 303, MUS 313, MUS 353, and MUS
371–399 (p. ). Note: Private study and performance ensembles
require an audition.

Note: A minimum of 40 upper division units must be completed for the
degree (including upper division units required for the major, general
education, electives, etc.). A student can complete this major yet
not attain the necessary number of upper division units required for
graduation. In this case, additional upper division courses will be needed
to reach the required total.

Complementary Studies
Twelve units of complementary studies are required of all candidates
for the Bachelor of Arts degree in Music. These units must come from
courses bearing a prefix other than MUS, and not cross-listed with MUS.
Music majors will be offered several pathways toward completing this
requirement, each of which is designed to facilitate graduation in a
timely manner. Music majors may, with the approval of a MUS Program
advisor, satisfy the Complementary Studies requirement by completing
12 units in a single foreign language of their choosing; 12 units from
courses taken in a study abroad program; 12 units from courses taken
as partial completion of a second major, minor or certificate; or 12 units
from courses in related disciplines. Related disciplines typically include:
theater, dance, cinema, broadcast and electronic communications,
creative writing, journalism, kinesiology, physical education, health
education, holistic health, biology, elementary education, English, history,
anthropology, business, and journalism. Up to 12 units of Complementary
Studies may count toward the major for courses that are related to music,
as determined by a major advisor.

The Bachelor of Arts in Music degree requires completion of the
University General Education requirements, 45 units of requirements
in music appropriate to the degree emphasis, which includes concert
attendance (MUS 150), and additional elective units for a total of 120
units. Additional elective units may be taken in music, but a maximum of 60
units in music may be counted towards the 120 units required for graduation.

Note:

• Lower division preparation for the Bachelor of Arts in Music should be
done during the first two years of study at SF State.
• Lower division preparation in music must be completed prior to
enrollment in upper division music coursework.
• Students must enroll in MUS 150 (3 units) each semester in residence
up to and including eight semesters.
• A grade of C or better is required for all music courses in the Bachelor
of Arts in Music major.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self- Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
</tbody>
</table>
First Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 954)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Music. This roadmap opens in a new tab. (bulletin.sfsu.edu/colleges/liberal-creative-arts/music/ba-music/adt-roadmap.html)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Music
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Music Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 130</td>
<td>Rudiments of Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music (^1)</td>
<td>0</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) (^2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) (^3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music (^1)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 201</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 221</td>
<td>Fundamentals of Ear Training and Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Contrapuntal Analysis and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
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</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) (^4)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music (^1)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II (^5)</td>
<td>1</td>
</tr>
<tr>
<td>or MUS 206</td>
<td>or Beginning Jazz/Pop Piano</td>
<td></td>
</tr>
<tr>
<td>MUS 222</td>
<td>Fundamentals of Ear Training and Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 232</td>
<td>Diatonic Analysis and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>or MUS 234</td>
<td>or Modern Musicianship: Theory, Application and Ear Training I</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or Complementary Studies or SF State Studies or University Elective (^6)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) (^4)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music (^1)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 233</td>
<td>Chromatic Analysis and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>or MUS 235</td>
<td>or Modern Musicianship: Theory, Application and Ear Training II</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music (^1)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 420</td>
<td>20th Century Techniques</td>
<td>3</td>
</tr>
<tr>
<td>or MUS 440</td>
<td>or Jazz Harmony</td>
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### Sixth Semester

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<tr>
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<th>Course Title</th>
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<tr>
<td>MUS 150</td>
<td>Concert Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 542GW</td>
<td>Ethnomusicology · GWAR</td>
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<tr>
<td>MUS 542GW</td>
<td>Ethnomusicology · GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td></td>
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</tbody>
</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 150</td>
<td>Concert Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 520</td>
<td>Seminar in Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 520</td>
<td>Seminar in Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 520</td>
<td>Seminar in Music Literature</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUS 150</td>
<td>Concert Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 598</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 598</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 598</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>3</td>
<td></td>
</tr>
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### Total Units

<table>
<thead>
<tr>
<th></th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. Required each semester of music majors.
2. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
3. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
5. Piano majors may substitute private lessons for MUS 202.
6. **Complementary Studies**

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Music. These units must come from courses bearing a prefix other than MUS, and not cross-listed with MUS. Music majors will be offered several pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner. Music majors may, with the approval of a MUS Program advisor, satisfy the Complementary Studies requirement by completing 12 units in a single foreign language of their choosing; 12 units from courses taken in a study abroad program; 12 units from courses taken as partial completion of a second major, minor or certificate; or 12 units from courses in related disciplines. Related disciplines typically include: theater, dance, cinema, broadcast and electronic communications, creative writing, journalism, kinesiology, physical education, health education, holistic health, biology, elementary education, English, history, anthropology, business, and journalism. Up to 12 units of Complementary Studies may count toward the major for courses that are related to music, as determined by a major advisor.

The Bachelor of Arts in Music degree requires completion of the University General Education requirements, 45 units of requirements in music appropriate to the degree emphasis, which includes concert attendance MUS 150 and additional elective units for a total of 120 units. **Additional elective units may be taken in music, but a maximum of 60 units in music may be counted towards the 120 units required for graduation. Note:**

- Lower division preparation for the Bachelor of Arts in Music should be completed during the first two years of study at SF State.
- Lower division preparation in music must be completed prior to enrollment in upper division music coursework.
- Students must enroll in MUS 150 (6 units) each semester in residence up to and including eight semesters.
- A grade of C or better is required for all music courses in the Bachelor of Arts in Music major.
Area of Upper Division Emphasis Electives (19 units)
To fulfill the requirements of the major in the Bachelor of Arts in Music, students must complete an additional 19 units of coursework. Based on their interests, along with mandatory faculty advising every semester, students select courses to build an emphasis area, of which several are most common: Classical, Jazz, Popular, Creative/World, Electronic Music, and Historical Keyboard. Advising sheets are available from the Music Office and Faculty Advisors.

Theory/Practice
Six to seven units from MUS 405-MUS 477 (with the exception of core courses).

History/Literature
Six to seven units from MUS 501-MUS 599 (with the exception of MUS 542GW).

Instruction/Ensembles
Six to seven units from MUS 303, MUS 313, MUS 353 and MUS 371-MUS 399. Note: Private study and performance ensembles require an audition.
Bachelor of Music

The Bachelor of Music is an intensive curriculum for students wishing to study music for specific professional purposes or seeking professional levels of attainment in music. Bachelor of Music emphases within the program provide specialized study in piano, vocal, and instrumental performance; composition; jazz; history and literature; and music education (credential preparation). These specializations prepare students for graduate study or various professional opportunities. In addition to possessing musical ability and motivation, every candidate for the professional degree program must demonstrate, in an audition before a faculty panel, a significant technical and artistic level of accomplishment in at least one area of performance before being admitted to this major. Candidates for the Bachelor of Music major may apply either before or after enrolling at San Francisco State University.

A maximum of 73 units in music may be counted toward this degree.

Students in a performance emphasis may receive up to eight semesters of individual lessons with the distinguished artist faculty in the School of Music, many of whom are members of the San Francisco Symphony, Opera, and Ballet Orchestras, and maintain active professional careers. The degree program culminates in a formal senior recital.

Students in the composition emphasis have early and continued opportunities through private lessons, Composers' Workshop, and other specialized classes to study with nationally recognized faculty composers and to have their works publicly performed. Students are expected to qualify for this emphasis at the end of the second year of study at San Francisco State University.

Students in the history/literature emphasis complete core courses in music history as well as courses in such topics as keyboard literature, jazz, ethnic music, and the works of individual composers. The culminating project for the history/literature emphasis, a senior thesis of an analytical or historical nature, gives each student an opportunity to work closely with a member of the music history faculty in developing research and analytical skills.

The Bachelor of Music with an emphasis in music education prepares students to teach in the elementary and secondary schools. Completion of this curriculum satisfies the pre-professional academic requirements for the Single Subject Teaching Credential in Music, leaving only the professional education sequence to be completed in the College of Education.

Bachelor of Music students must complete 27 units of core courses which includes concert attendance and one of the following emphases: Piano, Instrumental, or Vocal Performance; Composition; Jazz; History and Literature; or Music Education. Students who select the Music Education Emphasis must complete one of the three options listed under Music Education.

- Students must enroll in MUS 150 (0 units) each semester in residence up to and including eight semesters.
- A grade of C or better is required for all music courses in the Bachelor of Music major.

**Bachelor of Music — 72–73 units**

**Core Courses (30 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 150</td>
<td>Concert Music (each semester in residence up to</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and including 8 semesters)</td>
<td>0</td>
</tr>
</tbody>
</table>

**Area of Emphasis (41–43 units)**

To fulfill the requirements of the major in the Bachelor of Music, students must complete an additional 42–43 units of course work upon advisement. With a faculty advisor, students select an area of emphasis based on interests and areas in which to build expertise. Several areas of emphasis from which students may choose are listed below.

**Piano Performance Emphasis (41 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 382</td>
<td>Keyboard Harmony</td>
<td>1</td>
</tr>
<tr>
<td>MUS 303</td>
<td>Keyboard Major (1 unit course taken eight times)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 360</td>
<td>Major Repertoire (1 unit course taken eight times)</td>
<td>8</td>
</tr>
<tr>
<td>Ensemble Series: Two semesters of enrollment in a large, conducted ensemble is required. A minimum of 2 units large classical ensemble (Wind Ensemble, Orchestra, Opera Workshop, Chorus).</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUS 371</td>
<td>Orchestra</td>
<td></td>
</tr>
<tr>
<td>MUS 372</td>
<td>Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUS 373</td>
<td>Chamber Singers</td>
<td></td>
</tr>
<tr>
<td>MUS 375</td>
<td>Women's Chorus</td>
<td></td>
</tr>
<tr>
<td>MUS 379</td>
<td>University Chorus</td>
<td></td>
</tr>
<tr>
<td>MUS 381/MUS 385</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 378</td>
<td>Chamber Music (1 unit course taken two times)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 383</td>
<td>Piano Accompaniment</td>
<td>1</td>
</tr>
<tr>
<td>MUS 384</td>
<td>Piano Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUS 391</td>
<td>Piano Sightreading</td>
<td>1</td>
</tr>
<tr>
<td>MUS 392</td>
<td>Piano Performance Practicum (1 unit course taken five times)</td>
<td>5</td>
</tr>
<tr>
<td>MUS 405</td>
<td>Tonal Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 510</td>
<td>Keyboard Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 614</td>
<td>Piano Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>MUS 640</td>
<td>Ensemble Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

Senior Recital is required

**Vocal Performance Emphasis (42 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 201</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Class Piano III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 224</td>
<td>Ear Training and Musicianship IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 301</td>
<td>Class Piano IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 302</td>
<td>Class Piano V</td>
<td>1</td>
</tr>
<tr>
<td>MUS 313/TH A 318</td>
<td>Voice Major (1 unit course taken eight times)</td>
<td>8</td>
</tr>
</tbody>
</table>
Students wishing to qualify for the composition emphasis file an "Intent to Apply" form at the completion of MUS 232, and make their actual application to the program at the completion of MUS 425 (normally at the end of the sophomore year). The application consists of an application form, a transcript, and a portfolio of compositions. A portfolio of scores and recordings of works written for a variety of ensembles must also be submitted and approved before graduation from the program.

Major Instruction must have concurrent enrollment in a large classical ensemble (Wind Ensemble, Orchestra, Chorus).

### Instrumental Performance Emphasis (42 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 201</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Class Piano III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 353</td>
<td>Instrumental Major (1 unit course taken eight times)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 360</td>
<td>Major Repertoire (1 unit course taken eight times)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 371-MUS 390</td>
<td>Major Instruction must have concurrent enrollment in a large classical ensemble (Wind Ensemble, Orchestra, Chorus)</td>
<td>12</td>
</tr>
<tr>
<td>MUS 405</td>
<td>Tonal Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 416</td>
<td>Theory Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MUS 640</td>
<td>Ensemble Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

Music electives on advisement

Senior Recital is required

### Composition Emphasis (45 units)

Major Instruction must have concurrent enrollment in a large classical ensemble (Wind Ensemble, Orchestra, Chorus). Units on advisement from MUS 303 - MUS 313 - MUS 353 Piano, Voice, or Instrumental Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 201</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Class Piano III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 301</td>
<td>Class Piano IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 302</td>
<td>Class Piano V</td>
<td>1</td>
</tr>
<tr>
<td>MUS 224</td>
<td>Ear Training and Musicianship IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 405</td>
<td>Tonal Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 415</td>
<td>Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUS 416</td>
<td>Theory Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MUS 425</td>
<td>Composition Workshop</td>
<td>1</td>
</tr>
<tr>
<td>MUS 436</td>
<td>Introduction to the Electronic Music Studio</td>
<td>2</td>
</tr>
<tr>
<td>MUS 450</td>
<td>Projects in Theory and Composition (1 unit course taken four times)</td>
<td>4</td>
</tr>
</tbody>
</table>

Music electives on advisement

Senior Recital is required

### Jazz Emphasis (44–48 units)

Select two of the following:

- MUS 201 Class Piano I
- MUS 202 Class Piano II
- MUS 203 Class Piano III
- MUS 206 Beginning Jazz/Pop Piano

Upon advisement, for MUS 201-MUS 203 and MUS 206, jazz piano majors may substitute from the following three courses:

- MUS 382 Keyboard Harmony
- MUS 383 Piano Accompaniment
- MUS 391 Piano Sightreading

Piano, Voice, or Instrumental Major

2 semesters of applied classical lessons are required before admission to the major

- MUS 303 Keyboard Major
- MUS 313 Voice Major
- MUS 353 Instrumental Major
- MUS 360 Major Repertoire (1 unit course taken six to eight times)

Major Instruction must have concurrent enrollment in MUS 371 - MUS 390 Ensemble Series

- MUS 371 - MUS 390 (2 units must be in large classical ensembles)

Major instruction in one instrument or voice: minimum 2 units large classical ensemble (Wind Ensemble, Orchestra, Chorus) for students studying orchestral instruments or voice: minimum 2 units in Jazz and/or Creative Music performance classes for those students studying Jazz and Creative 2 units required (1 unit per semester). 2 units maximum (1 unit per semester)

- MUS 270 Improvisation
- MUS 431 Jazz Improvisation I
- MUS 432 Jazz Improvisation II
- MUS 440 Jazz Harmony
- MUS 441 Jazz Composition and Arranging
- MUS 558 Music of John Coltrane

Music elective on advisement

Required performance and passing of a Senior Recital

### History and Literature Emphasis (44 units)

Piano, Voice, or Instrumental Major

- MUS 303 Keyboard Major (on advisement)
- MUS 313 Voice Major (on advisement)
- MUS 353 Instrumental Major (on advisement)
**Bachelor of Music**

Select two of the following on advisement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 433</td>
<td>Introduction to Music Technology</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Early Field Experience in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>General Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Strings</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Brass Instruments</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Ensemble Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

**Music Education Emphasis (43 units)**

All Music Education Emphasis students complete the Music Education emphasis core courses and choose one option from Instrumental Music, Vocal Music, or the Diversified Program as shown below. Students must also present a recital.

**Music Education Emphasis Core Courses (16 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 351</td>
<td>Class Orchestral and Band Instruments I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Introduction to Music Technology</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Early Field Experience in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>General Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Strings</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Brass Instruments</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Ensemble Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

**Instrumental Music Option (26 units)**

Select two of the following on advisement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 201</td>
<td>Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Class Piano III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 301</td>
<td>Class Piano IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 302</td>
<td>Class Piano V</td>
<td>1</td>
</tr>
<tr>
<td>MUS 371</td>
<td>Class Piano V</td>
<td>1</td>
</tr>
</tbody>
</table>

**Vocal/Choral Music Option (28 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 301</td>
<td>Class Piano IV (on advisement)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 302</td>
<td>Class Piano V</td>
<td>1</td>
</tr>
<tr>
<td>MUS 313</td>
<td>Voice Major (1 unit course taken six times)</td>
<td>6</td>
</tr>
<tr>
<td>MUS 360</td>
<td>Major Repertoire (1 unit course taken two times)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 645</td>
<td>Advanced Choral Conducting and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

**Diversified Program (Keyboard/Choral) Option (25 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 303</td>
<td>Keyboard Major (1 unit course taken eight times)</td>
<td>8</td>
</tr>
<tr>
<td>MUS 313</td>
<td>Voice Major (by audition)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 313</td>
<td>Voice Major (by audition)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 313</td>
<td>Class Voice I</td>
<td>1</td>
</tr>
</tbody>
</table>

**Major Instruction must have concurrent enrollment in MUS 371 - MUS 390: Ensemble Series**

Major instruction in one instrument or voice: minimum 2 units large classical ensemble (Wind Ensemble, Orchestra, Chorus) for students studying orchestral instruments or voice: minimum 2 units in Jazz and/or Creative Music performance classes for those students studying Jazz and Creative 2 units required (1 unit per semester). 2 units maximum (1 unit per semester)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 415</td>
<td>Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUS 644</td>
<td>Advanced Instrumental Conducting and Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 371-MUS 390</td>
<td>Vocal Performance Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

**Music elective on advisement**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 433</td>
<td>Introduction to Music Technology</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Early Field Experience in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>General Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Strings</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Brass Instruments</td>
<td>2</td>
</tr>
<tr>
<td>MUS 433</td>
<td>Ensemble Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 353</td>
<td>Instrumental Major (MUS 371-MUS 390 1 each, 7 units total)</td>
<td>7</td>
</tr>
<tr>
<td>MUS 371</td>
<td>Vocal Performance Practicum</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 353</td>
<td>Instrumental Major (MUS 371-MUS 390 1 each, 7 units total)</td>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 371-MUS 390</td>
<td>Vocal Performance Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

In addition, candidates must pass the junior qualifying examination in one instrument or voice and demonstrate basic reading knowledge of French, German, or another appropriate language.
1 MUS 371, MUS 372, MUS 373, and MUS 379 fulfill General Education requirements; therefore, an additional 3 units may be taken for GE and are not counted in the emphasis total.

2 At least 1 unit must include MUS 270.

3 At least 2 units must include MUS 388 or MUS 390.

4 For the Diversified Concentration a minimum of 6 units must be in choral ensembles.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>UD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirement may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM) LD or UD 3
- Environmental Sustainability (ES) LD or UD 3
- Global Perspectives (GP) LD or UD 3

Social Justice LD or UD 3 (SJ)

Note: LD = Lower Division; UD = Upper Division.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer:
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferrable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Music Roadmap

128 Total Units Required  
Minimum Number of Units in the Major: 72

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 130</td>
<td>Rudiments of Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music ³</td>
<td>0</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ³</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music ³</td>
<td>0</td>
</tr>
<tr>
<td>MUS 221</td>
<td>Fundamentals of Ear Training and Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 231</td>
<td>Contrapuntal Analysis and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music ³</td>
<td>0</td>
</tr>
<tr>
<td>MUS 222</td>
<td>Fundamentals of Ear Training and Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 232</td>
<td>Diatonic Analysis and Synthesis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music ³</td>
<td>0</td>
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<tr>
<td>MUS 233</td>
<td>Chromatic Analysis and Synthesis</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>MUS 150</td>
<td>Concert Music ³</td>
<td>0</td>
</tr>
<tr>
<td>MUS 420</td>
<td>20th Century Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUS 542GW</td>
<td>Ethnomusicology - GWAR</td>
<td>3</td>
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<tr>
<td>Area of Emphasis (42-43 units) ⁵</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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</tr>
<tr>
<td>MUS 150</td>
<td>Concert Music ³</td>
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</tr>
</tbody>
</table>

Notes:
- ² MUS 150 \( \geq 3 \) units
- ³ MUS 150 \( \geq 6 \) units
- ⁴ GE Area B \( \geq 3 \) units
- ⁵ Area of Emphasis \( \geq 3 \) units
Bachelor of Music Roadmap

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 550</td>
<td>Music from the Middle Ages to 1750</td>
<td>3</td>
</tr>
<tr>
<td>Area of Emphasis (42-43 units) 5</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>17</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 150</td>
<td>Concert Music 1</td>
<td>0</td>
</tr>
<tr>
<td>MUS 551</td>
<td>Classic and Romantic Music</td>
<td>3</td>
</tr>
<tr>
<td>Area of Emphasis (42-43 units) 6</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>17</strong></td>
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</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 150</td>
<td>Concert Music 1</td>
<td>0</td>
</tr>
<tr>
<td>MUS 552</td>
<td>20th Century Music</td>
<td>3</td>
</tr>
<tr>
<td>Area of Emphasis (41-43 units) 5</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>17</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 128-130

1. Required each semester of music majors.

2. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

3. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
Area of Emphasis (41–43 units)
To fulfill the requirements of the major in the Bachelor of Music, students must complete an additional 41–43 units of course work upon advisement. With a faculty advisor, students select an area of emphasis based on interests and areas in which to build expertise. Several areas of emphasis from which students may choose are listed below.

**Piano Performance Emphasis (41 units)**
MUS 382 Keyboard Harmony (1 unit)
MUS 303 Keyboard Major (1 unit)
MUS 360 Major Repertoire (1 unit)
Ensemble Series: Two semesters of enrollment in a large, conducted ensemble is required. A minimum of 2 units large classical ensemble (Wind Ensemble, Orchestra, Opera Workshop, Chorus).
MUS 371 Orchestra (1 unit)
MUS 372 Wind Ensemble (1 unit)
MUS 373 Chamber Singers (1 unit)
MUS 375 Women's Chorus (1 unit)
MUS 379 University Chorus (1 unit)
MUS 381 Men's Chorus (1 unit) - MUS 385 Applied Accompanying (1 unit)
MUS 378 Chamber Music (1 unit)
MUS 383 Piano Accompaniment (1 unit)
MUS 384 Piano Ensemble (1 unit)
MUS 391 Piano Sightreading (1 unit)
MUS 392 Piano Performance Practicum (1 unit)
MUS 405 Tonal Counterpoint (3 units)
MUS 510 Keyboard Literature (3 units)
MUS 614 Piano Pedagogy (2 units)
MUS 640 Ensemble Conducting (2 units)
Senior Recital is required

**Vocal Performance Emphasis (42 units)**
MUS 201 Class Piano I (1 unit)
MUS 202 Class Piano II (1 unit)
MUS 203 Class Piano III (1 unit)
MUS 224 Ear Training and Musicianship IV (1 unit)
MUS 301 Class Piano IV (1 unit)
MUS 302 Class Piano V (1 unit)
MUS 313 Voice Major (1 unit)
MUS 360 Major Repertoire (1 unit)
MUS 371 Orchestra (1 unit)-MUS 390 Jazz Band (1 unit)
Major Instruction must have concurrent enrollment in a large classical ensemble (Wind Ensemble, Orchestra, Chorus)
MUS 560 Lyric Diction I (2 units)
MUS 561 Lyric Diction II (2 units)
MUS 565 Vocal Literature (3 units)
MUS 612 The Voice (3 units)
MUS 640 Ensemble Conducting (2 units)
2 units of Music Electives on Advisement
Senior Recital is required

**Instrumental Performance Emphasis (42 units)**
MUS 201 Class Piano I (1 unit)
MUS 202 Class Piano II (1 unit)
MUS 203 Class Piano III (1 unit)
MUS 353 Instrumental Major (1 unit)
MUS 360 Major Repertoire (1 unit)
MUS 371 Orchestra (1 unit)-MUS 390 Jazz Band (1 unit)
Major Instruction must have concurrent enrollment in a large classical ensemble (Wind Ensemble, Orchestra, Chorus)
MUS 405 Tonal Counterpoint (3 units)
MUS 416 Theory Seminar (3 units)
MUS 640 Ensemble Conducting (2 units)
3 units of Music Electives on Advisement
Senior Recital is required

**Composition Emphasis (45 units)**
Students wishing to qualify for the composition emphasis file an "Intent to Apply" form at the completion of MUS 232, and make their actual application to the program at the completion of MUS 425 (normally at the end of the sophomore year). The application consists of an application form, a transcript, and a portfolio of compositions. A portfolio of scores and recordings of works written for a variety of ensembles must also be submitted and approved before graduation from the program.
Minor in Music

The program is designed to provide students with a planned sequence of musical experiences that will provide opportunities for life-long learning and future enjoyment. The minor may be designed, in consultation with a music faculty advisor, to include other courses that more appropriately meet the particular goals and educational attainment in music of the individual student.

12 of the total units must be in upper division work and taken in residence at San Francisco State.

Music Minor – 21 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 120</td>
<td>Basic Music 1 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>MUS 201</td>
<td>Class Piano I 1</td>
<td>1</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Class Piano II 1</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Class Piano III 1</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUS 501</td>
<td>Music, The Listener’s Art</td>
<td></td>
</tr>
<tr>
<td>MUS 505</td>
<td>Music of the World’s Peoples</td>
<td></td>
</tr>
<tr>
<td>MUS 506</td>
<td>Survey of Jazz</td>
<td></td>
</tr>
<tr>
<td>MUS 371-MUS 390</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Music units on advisement</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

1 Students with more developed piano skills may substitute other piano classes, with the approval of the music minor advisor. These classes may include: MUS 206, MUS 301, MUS 302, or MUS 303.
2 Students with extensive background in music may substitute more advanced courses.

Master of Arts in Music

Master of Arts in Music

This program provides advanced study for students with highly developed interest and attainment in specific areas of music; prepares teachers for certain types of college music positions; provides prospective doctoral aspirants with a sound foundation for advanced graduate study; provides advanced academic qualifications for public school teachers; and prepares students for professional careers in composition. All emphases require either a culminating creative project or a master’s thesis.

All students must complete a 9 unit core requirement and complete an emphasis as designated below. Enrollment is required during the semester of graduation.

Admission to Program

Students should apply by April 1 for the following fall or October 1 for the following spring. Applicants are required to file two applications, one with the University and one with the School of Music. Admission to conditionally classified status requires acceptance by both the University and the School of Music. A departmental application form may be obtained by writing to the School of Music, or by calling (415) 338–1431. University applications may be requested from the graduate admissions office or online at http://grad.sfsu.edu/.

Requirements for admission to conditionally classified status in music are as follows.

1. A baccalaureate degree, with a major in music or equivalent musical experience.
2. A minimum 3.0 grade point average in the last 60 units of undergraduate study.
4. A 200–500 word narrative statement of purpose. This statement should include a description of the applicant’s previous accomplishments.
5. An official copy of the applicant’s undergraduate transcripts, and graduate transcripts if the student has been previously enrolled in a program of graduate study.
6. Two letters of recommendation from current or former teachers or professionals who are familiar with the applicant’s qualifications.
7. Completion of Graduate Classification Examinations in Music History, Theory, Aural Skills and, for music education candidates, the Music Education Master’s Advisory Exam. These examinations must be taken prior to entry into the program. Students who demonstrate deficiencies in one or more areas may be accepted into the program contingent upon remediation of all deficiencies within one academic year of entry into the program. Undergraduate course work taken to remove deficiencies may not be used as part of the 30 units required for the master’s degree in music.
8. Additional requirements for specific programs are:
   a. For applicants to the Master of Arts in Music with an emphasis in Music Education: a written description of the nature and extent of teaching experience. Applicants must also provide evidence of a valid teaching credential.
   b. For applicants to the Master of Arts program with an emphasis in Music History: representative examples of student analytical papers.
   c. For applicants to the Master of Arts program with an emphasis in Composition: representative scores and, if possible, tapes of recent musical compositions.

Written English Proficiency Requirement

Level One

Applicants to the M.A. program are required to submit writing samples, demonstrating graduate level, discipline-specific proficiency in music research. Samples may include writing assignments submitted to satisfy requirements in undergraduate history courses. Applicants with substandard writing may be considered not admissible. Students who have recently earned an undergraduate degree from SF State may be exempted from this requirement.

Level Two

Level Two is satisfied with satisfactory completion of the Music History seminar from the 750 series.

Advancement to Candidacy

Advancement to candidacy occurs when an Advancement to Candidacy (ATC) form has been completed by the student and approved by the major advisor, college graduate coordinator, and the dean of the Graduate Division. Prior to completion of the ATC form, the student must have been granted fully classified status (see #7 above); have satisfactorily completed both Written English Proficiency Requirements; have completed at least 12 semester units applicable to the degree with
a B average or above; and have successfully completed review of the student’s program with the faculty advisor.

**Master’s Examination**
All candidates for Master of Arts in Music degree must pass a comprehensive examination that demonstrates their ability to communicate, both orally and in writing, their command of music theory, history, research and analytical skills, and musical repertoire. (This examination must be taken during the semester in which the student completes all course work.)

**Music (M.A.) – Minimum 30 units**

**Core Requirements (9 units)**
- MUS 700 Introduction to Graduate Study 3
- MUS 710 Advanced Analysis 3
- Select one graduate seminar in Music History (MUS 750–MUS 755) 3

**Music Education Emphasis (21 units)**
This program is open to students who are either enrolled in the music teaching credential program or are credentialed music teachers seeking advanced qualifications. All candidates must hold a baccalaureate degree from an accredited university and have satisfied the requirements for the San Francisco State University approved subject matter program in music education or equivalent in the candidate’s home state or country.

**Music Education Courses**
- MUS 761/852 Curriculum and Instruction II: Music (on advisement) 3
- Non-music electives on advisement 9
- Students enrolled in the music teaching credential program may fulfill these units with:
  - S ED 751 Classroom Environment and Management and Professional Perspectives and Practices 6
  - Select one of the following on advisement:
    - MUS 894 Creative Work Project 3
    - MUS 898 Master’s Thesis 3
- Students preparing for advanced study at the doctoral level should complete a master’s thesis as a culminating project.

**Music History Emphasis (21 units)**
Music History Seminars (selected from MUS750–MUS 755) 6
- MUS 899 Independent Study 4
- Non-music electives on advisement 6
- Electives in music on advisement 2
- MUS 898 Master’s Thesis 3
- Foreign Language Competency Examination (French, German, Italian, or other approved language) 2

**Composition Emphasis (21 units)**
- MUS 716 Graduate Theory Seminar 3
- MUS 720 Directed Projects in Theory or Composition 2 1
- MUS 725 Practicum in Composition 7 1
- MUS 894 Creative Work Project 3
- Non-music electives on advisement 6
- Approved elective in music 1
- Foreign Language Competency Examination (French, German, Italian, or other approved language) 2

1. Unit totals indicate the minimum requirement. Additional instruction may be required before the thesis/composition is undertaken.
2. To be successfully completed prior to advancement to fully classified status in the program.

**Master of Music**

**Master of Music**
The Master of Music program provides graduate study for the superior performer and allows for maximum development of specialized skills in the candidate’s particular area of documented achievement. Students may emphasize classical solo performance, chamber music, or conducting. This degree is particularly appropriate for students intending to perform or conduct music professionally, to teach applied performance in college/university settings or private studio, or to pursue doctoral studies in performance. The program culminates in a formal graduate recital.

All students must complete a nine unit core requirement and complete an emphasis as designated below. Participation in a large conducted classical ensemble in the area of study is required of all graduate students (orchestral instruments and voice) enrolled in applied lessons. Enrollment is required during the semester of graduation.

**Admission to Program**
Students should apply by April 1 for the following fall or October 1 for the following spring. Applicants are required to file two applications, one with the University and one with the School of Music. Admission to conditionally classified status requires acceptance by both the University and the School of Music. A departmental application form may be obtained by writing to the School of Music or by calling 415-338-1431. University applications may be requested from the graduate admissions office or online at web.arts.sfsu.edu/~gradstdy/ (http://web.arts.sfsu.edu/~gradstdy).

Requirements for admission to conditionally classified status in music are as follows.

1. A baccalaureate degree with a major in music or equivalent musical experience.
2. A minimum 3.0 grade point average in the last 60 units of undergraduate study.
4. A 200–500 word narrative statement of purpose. This statement should include a description of the applicant’s previous accomplishments.
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6. Two letters of recommendation from current or former teachers or professionals who are familiar with the applicant’s qualifications.
7. Completion of Graduate Classification Examinations in Music History, Theory, Aural Skills and, for music education candidates, the Music Education Master’s Advisory Exam. These examinations must be taken prior to entry into the program. Students who demonstrate
deficiencies in one or more areas may be accepted into the program contingent upon remediation of all deficiencies within one academic year of entry into the program. Undergraduate course work taken to remove deficiencies may not be used as part of the 30 units required for the master’s degree in music.

8. Additional requirements:
   a. For applicants to the Master of Music program: a live audition before members of the Music faculty or, for applicants unable to travel to San Francisco, a CD, videotape or DVD 30–45 minutes in duration demonstrating the student’s current level of accomplishment. A repertoire list is also required, including an indication of those works on the list which have been performed in recital. (Please contact the School of Music to schedule an audition.)

Written English Proficiency Requirement
Level One
Applicants to the M.M. program are required to submit writing samples, demonstrating graduate level, discipline-specific proficiency in music research. Samples may include writing assignments submitted to satisfy requirements in undergraduate history courses. Applicants with substandard writing may be considered not admissible. Students who have recently earned an undergraduate degree from SF State may be exempted from this requirement.

Level Two
Level Two is satisfied with satisfactory completion of the Music History seminar from the 750 series.

Advancement to Candidacy
Advancement to candidacy occurs when an Advancement to Candidacy (ATC) form has been completed by the student and approved by the major advisor, college graduate coordinator, and the dean of the Graduate Division. Prior to completion of the ATC form, the student must have been granted fully classified status (see #7 above); have satisfactorily completed both Written English Proficiency Requirements; have completed at least 12 semester units applicable to the degree with a B average or above; and have successfully completed review of the student’s program with the faculty advisor.

Master’s Examination
All candidates for Master of Arts in Music degree must pass a comprehensive examination that demonstrates their ability to communicate, both orally and in writing, their command of music theory, history, research and analytical skills, and musical repertoire. (This examination must be taken during the semester in which the student completes all course work.)

Master of Music – 30 Units
Core Requirements (9 Units)
MUS 700 Introduction to Graduate Study 3
MUS 710 Advanced Analysis 3
Select one graduate seminar in Music History (selected from MUS 750–755) 3

Solo Classical Performance Emphasis (21 Units)
MUS 776 Directed Projects in Performance (Piano, Voice, or Instrumental Major – Maximum of 6 units allowed) 4

Chamber Music Emphasis (21 Units)
MUS 701 Graduate Seminar in Music 3
MUS 776 Directed Projects in Performance (Piano, Voice, or Instrumental Major – Maximum of 6 units allowed) 4
MUS 780 Graduate Major Repertoire (Maximum of 6 units allowed) 4

Music electives on advisement 7
Must include 1 unit each of MUS 778, Chamber Music Performance; advanced score reading and transposition (MUS 852); and keyboard instruction. Performance ability in another instrument or voice is strongly encouraged.

Conducting Emphasis (21 Units)
MUS 701 Graduate Seminar in Music 3
MUS 781 Choral Conducting 8
or MUS 782 Instrumental Conducting 3
MUS 894 Creative Work Project 3
Concurrent enrollment in major ensembles is required each semester. Students will normally elect four semesters of their particular emphasis (instrumental or choral).

Music electives on advisement. (Must include graduate/undergraduate major instruction as appropriate) 7
PACIFIC ASIAN STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

Pacific Asian Studies Program
Humanities Building, Room 475
Phone: (415) 338–7536
Coordinator: Wen-Chao C Li

Program Scope
Pacific Asia refers to the regions of Asia bordering the Pacific Ocean, including East and Southeast Asia. Historically, East Asia has been under strong influences of Confucianism and Mahayana Buddhism, and Southeast Asia has been under strong influences of Islam and Theravada Buddhism. Diversity seems to be more characteristic than commonality in describing the cultures and societies of East and Southeast Asia. But East and Southeast Asia can be regarded as a meaningful unit of global studies when we consider the two regions’ commercial, cultural, and diplomatic interactions, as well as their common experiences with Western and Japanese imperialism. In the twenty-first century, an economic community that connects East and Southeast Asia has been taking shape with marked Chinese initiatives, making these two regions more closely integrated than ever. The Pacific Asian Studies Minor is designed to give students an introduction into the exuberantly rich and diverse cultures of East and Southeast Asia, their inter-regional relations, and their relations with the rest of the world. In what some are now calling the Asian century, the rising tide of immigration of people from Pacific Asia into the United States, the rapidly increasing trade and financial transfers with nations of the Pacific Rim, and the growing attention to Asian arts, literature, philosophy, medicine, environment, and human rights signal the need to study Pacific Asia in earnest. At a time when this part of the world has become increasingly important to Americans, the minor serves the need to gain a better understanding of the complex Asian scene by offering an inviting opportunity for students to develop career and life enhancing academic experiences at the university.

The Pacific Asian Studies Minor is an interdisciplinary program designed for students seeking a more intensive and extensive knowledge and understanding of East and Southeast Asia than their major discipline would offer. The Pacific Asian Studies Minor will be useful to students interested in pursuing further study at the graduate level as well as those planning careers in education, foreign services, international organizations, overseas corporations, and banking. Participants in the Study Abroad program at SF State are welcomed to join Pacific Asian Studies and bring their Asian experiences to SF State classrooms.

Pacific Asian Studies Minor
The curriculum of Pacific Asian Studies Minor emphasizes versatility in terms of both the regions and the subject and the major discipline. China is the oldest continuous civilization in the world. Japan, Korea, and Southeast Asia also have their distinctive civilizations. The curriculum is designed to give students exposure to all three distinctive civilization systems. The curriculum consists of a core of 12–15 units, plus nine units of electives, totaling 21–24 units. Not more than nine units may be transferred from other campuses; no more than six units may be taken on a CR/NC basis.

Students considering the minor are advised to consult with Pacific Asian Studies faculty to create an individualized plan to take into account specific interests as well as to develop a strategy for taking courses to ensure timely completion of the minor. Students planning to take courses other than those listed in the curriculum are required to get prior approval of the program director.

Professors
Banerjee, Burke, Goto, S. Guo, Hanami, Hsu, G. Lee, McKeon, Minami, Modirzadeh, Scott, Simeon, Soh, Wong

Associate Professors
Asano, Blanchard, Q. Guo, Li, Tiwald

Assistant Professors
Domiatio, Elkind, Jacobowitz, Kavuri-Bauer, M. Lee, Mahi, Wang

Lecturers
Chang, Cheng, Dupen, Kuo, Liou, Matsumoto, Mick, Muranaka, Yamaguchi

Pacific Asian Studies Minor − 21–24 units
Core (12–15 units)

Category A: China/Hong Kong/Taiwan Studies
Group I − History, Social Sciences, Health, and Business
Select 3–4 units from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOG 575</td>
<td>Emerging China</td>
<td>3</td>
</tr>
<tr>
<td>HH 381</td>
<td>Holistic Health: Eastern Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>HH 383</td>
<td>Chinese Perspectives in Holistic Health</td>
<td>3</td>
</tr>
<tr>
<td>HH 420</td>
<td>Chinese Body-Mind Energetics</td>
<td>3</td>
</tr>
<tr>
<td>HH 530</td>
<td>Herbal and Nutritional Principles in Chinese</td>
<td>3</td>
</tr>
<tr>
<td>HIST 569</td>
<td>Ancient Chinese Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 570</td>
<td>Imperial China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 571</td>
<td>History of Modern China</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 592</td>
<td>Doing Business in Greater China</td>
<td>3</td>
</tr>
<tr>
<td>I R/PLSI 325</td>
<td>Chinese Foreign Policy</td>
<td>4</td>
</tr>
<tr>
<td>PLSI/I R 404</td>
<td>Politics of China</td>
<td>4</td>
</tr>
</tbody>
</table>

Group II − Humanities, Arts, and Literature
Select 3 units from the following list of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 401</td>
<td>Advanced Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 411</td>
<td>Media Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 501</td>
<td>Introduction to Classical Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 507</td>
<td>Traditional Chinese Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 521</td>
<td>Chinese Modern Fiction</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 600</td>
<td>Topics in Chinese Language, Literature, and Culture in English</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 601GW</td>
<td>The Poetic Tradition - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 602</td>
<td>The Narrative Tradition in English</td>
<td>3</td>
</tr>
<tr>
<td>HUM 375</td>
<td>Biography of a City (topic: Beijing)</td>
<td>3</td>
</tr>
<tr>
<td>HUM 530</td>
<td>Chinese Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HUM 531</td>
<td>Images of Modern China</td>
<td>3</td>
</tr>
<tr>
<td>KIN 148</td>
<td>Elementary Kung Fu</td>
<td>1</td>
</tr>
<tr>
<td>KIN 175</td>
<td>Elementary Tai-Chi Chuan</td>
<td>1</td>
</tr>
</tbody>
</table>
KIN 275  Intermediate/Advanced Tai-Chi Chuan  2  
PHIL 511  Chinese Philosophy and Religion  3  

**Category B: Japan/Korea Studies**  
Select 3–4 units from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 502</td>
<td>Asian Art: Special Areas</td>
<td>3</td>
</tr>
<tr>
<td>HIST 578</td>
<td>History of Japan</td>
<td>3</td>
</tr>
<tr>
<td>HUM 375</td>
<td>Biography of a City</td>
<td>3</td>
</tr>
<tr>
<td>HUM 526</td>
<td>Culture of Japan before 1850</td>
<td>3</td>
</tr>
<tr>
<td>HUM 527</td>
<td>Japan and Modernity</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 596</td>
<td>Doing Business in Japan</td>
<td>3</td>
</tr>
<tr>
<td>I R/PLSI 329</td>
<td>U.S.-Japan Politics</td>
<td>4</td>
</tr>
<tr>
<td>JAPN 200</td>
<td>Art of Japanese Writing and Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 302</td>
<td>Japanese Reading and Grammar</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 309</td>
<td>Advanced Readings in Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 390</td>
<td>Business Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 395</td>
<td>Advanced Business Japanese: Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 401</td>
<td>Topics in Japanese Culture (all topics)</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 510</td>
<td>Modern Japanese Literature</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 590</td>
<td>Topics in Japanese Literature</td>
<td>3</td>
</tr>
<tr>
<td>KIN 142</td>
<td>Elementary Judo</td>
<td>1</td>
</tr>
<tr>
<td>KIN 145</td>
<td>Elementary Karate</td>
<td>1</td>
</tr>
<tr>
<td>KIN 242</td>
<td>Intermediate/Advanced Judo</td>
<td>1</td>
</tr>
<tr>
<td>TH A 408</td>
<td>Asian Plays and Performance Styles: Japan</td>
<td>3</td>
</tr>
</tbody>
</table>

**Category C: SE Asia/Regional/Comparative Studies**  
Select 3–4 units from the following list of courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 315</td>
<td>Regional Ethnography (topic course: Peoples and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cultures of East Asia)</td>
<td></td>
</tr>
<tr>
<td>ANTH 415/</td>
<td>Culture and Sex in East Asia</td>
<td>3</td>
</tr>
<tr>
<td>SXS 438</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART/HUM 205</td>
<td>Asian Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 502</td>
<td>Asian Art: Special Areas</td>
<td>3</td>
</tr>
<tr>
<td>HIST 575</td>
<td>History of Women in China and Japan</td>
<td>3</td>
</tr>
<tr>
<td>HIST 588</td>
<td>History of Southeast Asia</td>
<td>3</td>
</tr>
<tr>
<td>I R 326</td>
<td>South and Southeast Asia Foreign Relations</td>
<td>4</td>
</tr>
<tr>
<td>IBUS 594</td>
<td>Doing Business in Asia-Pacific Countries</td>
<td>3</td>
</tr>
<tr>
<td>MUS 531</td>
<td>Musics of North and Southeast Asia</td>
<td>3</td>
</tr>
<tr>
<td>PLSI/I R 411</td>
<td>East Asian Politics</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 418GW</td>
<td>Political Transitions in East &amp; Southeast Asia -</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GWAR</td>
<td></td>
</tr>
<tr>
<td>PLSI 419</td>
<td>Comparative Political Economy</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives (9 units)**  
Select three or more courses from at least two of the four sets of courses:

**Foreign Language Requirement**  
Students with no prior knowledge of a language other than English are required to take one semester of a language course, on advisement, that is relevant to their course of study and post-graduate goals. Students who wish to be exempted from this requirement must submit a written request to the director of Pacific Asian Studies.
PHILOSOPHY

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Philosophy
Humanities Building, Room 388
Phone: (415) 338–1586
Chair: Anita Silvers

Program Scope
The Department of Philosophy offers students a broad education in the history of thought, development of powerful reasoning skills, and opportunities to apply their insights and skills to areas of personal and professional interest.

An education in philosophy is beneficial in almost all parts of life. Generally speaking, philosophical education is eminently valuable for careers that call for analysis and evaluation of problems, smart solutions, critical and creative thinking and writing, and powerful advocacy of one’s beliefs and values. Our degree programs develop students’ potential for independent thought and intellectual creativity. Philosophy students score extremely well on the admission tests required by various post-baccalaureate professional schools. A double major in philosophy complements and enhances other degrees, whether in the sciences, social sciences, arts, humanities, or professional studies.

Students can choose a degree program that includes both general theories in the different philosophical fields and philosophy as applied in different areas of understanding (the B.A. in Philosophy), or a degree that intersects philosophy and religion with a focus on the diverse forms experiences of spirituality can take (the B.A. in Philosophy and Religion), or a program that emphasizes foundations of law, public policy and rights (the B.A. in Philosophy with an Emphasis in Philosophy and Law). The department’s programs also recognize students’ diversity of interests by allowing a great deal of flexibility in choosing program content.

Students may double-major, combining the skills, perspectives, and knowledge acquired in the philosophy major with a pre-professional, social science, liberal arts, healthcare, human services, liberal studies, education, business, biological, pre-medicine, physical or computer science degree. A double major in philosophy complements and enhances other degrees, whether in the sciences, social sciences, arts, humanities, or professional studies.

Graduate Program
The Master of Arts in Philosophy is designed for students wishing to extend their knowledge of, and competence in, philosophy; for students seeking a teaching career where the master’s degree is required; and for students who are planning to do further study elsewhere. The program is wide ranging and flexible, enabling students to concentrate on a number of different areas within philosophy.

Career Outlook
A principal reason for the study of philosophy and/or religion is the enrichment of one’s own life and understanding. Fortunately, the study of philosophy also is an excellent preparation for a variety of post-baccalaureate professional studies and careers in law, medicine, public policy and strategic planning, the helping professions, computer-assisted enterprises, and innovative business and non-profit organizations.

The broader outlook and the ability to think critically about larger issues that are fostered by the systematic study of philosophy and religion are often highly valued by commercial firms in their management level personnel. Some students continue on to graduate work in philosophy or religious studies. SF State graduates now are teaching in colleges across the country. And opportunities to teach philosophy in K – 12 have increased as educators realize the importance of enhancing children’s critical thinking skills. The philosophy and religion program is a strong foundation for the helping professions, the ministry, and advanced studies in theology. The skills that are achieved by minoring in philosophy or philosophy and religion are an excellent complement to most university major programs.

Professors
Azadpur, Silvers, van Fraassen, Wilcox

Associate Professors
Hood, Landy, Montemayor, Peschard, Sowaal, Sveinsdottir, Twald, Toh

Assistant Professor
Bursten

Lecturers
Balboa, Blackmon, Dupen, Fairweather, Kay, Kemtrup, Mutti, Nutting, Robertson, Sudduth

Majors
- Bachelor of Arts in Philosophy (p. 971)
- Bachelor of Arts in Philosophy: Emphasis in Philosophy and Law (p. 988)
- Bachelor of Arts in Philosophy and Religion (p. 980)

Minors
- Minor in Philosophy (p. 999)
- Minor in Philosophy and Religion (p. 999)

Masters
- Master of Arts in Philosophy (p. 999)

Bachelor of Arts in Philosophy
Philosophy is traditionally identified with the love of wisdom and the ability to think well about the foundations of human action, the nature of reality, and the purposes and priorities of life. Our department offers the opportunity for a systematic study of the philosophies of past and present and also of East and West, a study that deepens and broadens one’s outlook on the world and human affairs.

The enterprise of philosophy requires sharpening the skills necessary for clarifying premises, uncovering presuppositions (one’s own and those of others), weighing the pros and cons of conflicting values, and analyzing concepts and issues. Courses in philosophy serve to develop and enhance these skills. Some courses concentrate on specific philosophical issues. Others provide an overview of an entire area of human inquiry or endeavor (such as the sciences, the arts, political theory and law, medicine, social justice, and how our minds, senses, and
emotions work) or of the philosophical foundations that characterize a historical period.

The department welcomes students from other majors or programs who wish to examine their personal philosophy, investigate the philosophies of others, or sharpen their skills as independent thinkers.

Many of the courses offered are not only appropriate as part of a philosophy major but are of special interest to students in other fields. These courses are designed to help students understand the theoretical frameworks, methodological presuppositions, and more abstract dimensions of the paramount areas of knowledge. Students interested in either the philosophical understanding of a field of knowledge or in philosophy for self-understanding should feel free to consult the department chairperson or an advisor on appropriate courses.

Undergraduate advisors are authorized by the department to designate units obtained in other departments as satisfying unit requirements in philosophy for application to the philosophy program. Neither students nor advisors should view this as an escape clause which enables a student who has not quite satisfied the major requirements in philosophy to do so. Units outside the department are to be designated for use in the major on the basis of their contribution to the student’s major program. To avoid confusion on this point, students should obtain written approval from an advisor before obtaining non-department units to be utilized in the major.

Students who have not taken PHIL 110 may begin the program but should complete this course or its equivalent at the earliest opportunity. Equivalencies must be approved by a departmental advisor.

The Bachelor of Arts in Philosophy requires a minimum of 40 units, with at least 31 of these units being upper division. The program culminates in a one-unit personalized learning outcomes course in which students reflect philosophically on their development of skills and knowledge. This learning outcomes course, PHIL 696, can be taken in either the first or second semester of the student’s senior year.

The program includes nine units of elective courses in philosophy, permitting individualized emphases in specific areas. Students majoring in philosophy are urged to lay out a tentative program of courses with their advisors early in their tenure at the university. Depending upon the student’s area of specialization, up to six units of courses outside the philosophy department may be approved by a department advisor as elective units for the B.A.

**Philosophy (B.A.) – 40 units**

The following courses are required of all students majoring in philosophy.

**Foundation (6 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

**History (6 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td></td>
</tr>
</tbody>
</table>

And select any one of the following: 3

**Normative Issues (9 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 450</td>
<td>Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

And select any two from the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 330</td>
<td>Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 335</td>
<td>Law and Society</td>
<td></td>
</tr>
<tr>
<td>PHIL 378</td>
<td>Philosophy of Criminal Law</td>
<td></td>
</tr>
<tr>
<td>PHIL 380</td>
<td>Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td>PHIL 383</td>
<td>Ethics in Medicine</td>
<td></td>
</tr>
<tr>
<td>PHIL 384</td>
<td>Philosophy of Research Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 395</td>
<td>Ethical Issues: Science and Technology</td>
<td></td>
</tr>
<tr>
<td>PHIL 435</td>
<td>Human Rights in Global Perspective</td>
<td></td>
</tr>
<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 451</td>
<td>Feminist Moral Issues</td>
<td></td>
</tr>
<tr>
<td>PHIL 460</td>
<td>Philosophy of Art</td>
<td></td>
</tr>
<tr>
<td>PHIL 494</td>
<td>Philosophy and Personal Development</td>
<td></td>
</tr>
</tbody>
</table>

**Core Issues of the Discipline (9 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 321</td>
<td>Being and Knowing</td>
<td>3</td>
</tr>
</tbody>
</table>

And select any two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Science</td>
<td></td>
</tr>
<tr>
<td>PHIL 351</td>
<td>Philosophy of Risk</td>
<td></td>
</tr>
<tr>
<td>PHIL 605</td>
<td>Metaphysics</td>
<td></td>
</tr>
<tr>
<td>PHIL 610</td>
<td>Theory of Knowledge</td>
<td></td>
</tr>
<tr>
<td>PHIL 611</td>
<td>Philosophy of Perception</td>
<td></td>
</tr>
<tr>
<td>PHIL 620</td>
<td>Philosophy of Mind</td>
<td></td>
</tr>
<tr>
<td>PHIL 621</td>
<td>Minds, Brains and Computers</td>
<td></td>
</tr>
<tr>
<td>PHIL 630</td>
<td>Philosophy of Language</td>
<td></td>
</tr>
<tr>
<td>PHIL 694</td>
<td>Philosophical Logic Workshop</td>
<td></td>
</tr>
<tr>
<td>PHIL 695</td>
<td>Advanced Logic Workshop</td>
<td></td>
</tr>
</tbody>
</table>

**Electives (9 units)**

Elective Units in Philosophy (at least three units must be upper division)

**Culmination (1 unit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 696</td>
<td>Directed Reading: Learning Outcomes</td>
<td>1</td>
</tr>
</tbody>
</table>

1 PHIL 320GW satisfies the Graduation Writing Assessment Requirement (GWAR). Students who have satisfied GWAR in a discipline other than philosophy will still be required to complete PHIL 320GW as a requirement of the major.

**Complementary Studies for the Philosophy Major**

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degrees in Philosophy. These units must come from courses bearing a prefix other than PHIL, and not cross-listed with PHIL.

Philosophy majors are given a multitude of pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner and deepen the student’s knowledge and appreciation of a philosophical topic in a multi-disciplinary way. Philosophy majors may, with the approval of a department advisor, elect to apply 12 units in a single foreign language of their choosing or courses taken in an approved study abroad program (e.g., CSU Study Abroad). Otherwise, with the approval of a department advisor, the student may take 12 units of courses that complement an area of philosophical specialization. Philosophy is rich in such specializations. Here are some illustrative philosophical specializations in which studying philosophy and studying...
other disciplines is complementary: Philosophy of the Arts, Ancient Philosophy, Asian Philosophy, Bioethics/Medical Ethics, Business Ethics, Philosophy of Cinema, Philosophy of Dance, Philosophy of Economics, Environmental Philosophy, Global Justice, Islamic Philosophy, Philosophy of Language, Philosophy of Law, Philosophy of Literature, Logic and Philosophy of Mathematics, Philosophy of Music, Philosophy of Mind, Modern European Philosophy, Philosophy of Music, Philosophy of Perception, Philosophy of Photography, Philosophy of Psychology/ Cognitve Science, Political Philosophy and Social Justice, Philosophy of Religion, Philosophy of Sexuality, Philosophy of Science and Technology, Philosophy and Society, Philosophy of Social Science, Philosophy of Sport, Philosophy of Under-represented Groups, Philosophy of Women and Gender. To accommodate emerging areas of philosophical study, students are encouraged to design 12 unit modules for the review and approve of the department advisor.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Government</td>
<td>LD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Lifelong Learning and Self- Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in Philosophy. This roadmap opens in a new tab. (p. 978)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Philosophy

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements.

Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Philosophy Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 40

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Introduction to Critical Thinking I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ¹,²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ³</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁴</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15-16</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ³</td>
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<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15-16</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three ⁴</td>
<td></td>
<td>9</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Being and Knowing</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy or Medieval Philosophy or Islamic Philosophy</td>
<td></td>
</tr>
<tr>
<td>or PHIL 302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or PHIL 516</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Normative Issues (6 units) ⁵</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Core Issues of the Discipline (6 units) ⁶</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>Electives (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Normative Issues (6 units) ⁵</td>
<td></td>
<td>3</td>
</tr>
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</table>

975
### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>PHIL 696</td>
<td>3</td>
</tr>
<tr>
<td>Electives (9 units)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Four</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units:** 15

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

### Complementary Studies for the Philosophy Major

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degrees in Philosophy. These units must come from courses bearing a prefix other than PHIL, and not cross-listed with PHIL. Philosophy majors are given a multitude of pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner and deepen the student’s knowledge and appreciation of a philosophical topic in a multi-disciplinary way. Philosophy majors may, with the approval of a department advisor, elect to apply 12 units in a single foreign language of their choosing or courses taken in an approved study abroad program (e.g., CSU Study Abroad). Otherwise, with the approval of a department advisor, the student may take 12 units of courses that complement an area of philosophical specialization. Philosophy is rich in such specializations. Here are some illustrative philosophical specializations in which studying philosophy and studying other disciplines is complementary: Philosophy of the Arts, Ancient Philosophy, Asian Philosophy, Bioethics/Medical Ethics, Business Ethics, Philosophy of Cinema, Philosophy of Dance, Philosophy of Economics, Environmental Philosophy, Global Justice, Islamic Philosophy, Philosophy of Language, Philosophy of Law, Philosophy of Literature, Logic and Philosophy of Mathematics, Philosophy of Music, Philosophy of Mind, Modern European Philosophy, Philosophy of Music, Philosophy of Perception, Philosophy of Photography, Philosophy of Psychology/Cognitive Science, Political Philosophy and Social Justice, Philosophy of Religion, Philosophy of Sexuality, Philosophy of Science and Technology, Philosophy and Society, Philosophy of Social Science, Philosophy of Sport, Philosophy of Under-represented Groups, Philosophy of Women and Gender. To accommodate emerging areas of philosophical study, students are encouraged to design 12 unit modules for the review and approve of the department advisor.

### Normative Issues

Select any two of the following:
- PHIL 330 Political Philosophy (3 units)
- PHIL 335 Law and Society (3 units)
- PHIL 378 Philosophy of Criminal Law (3 units)
- PHIL 380 Philosophy of Law (3 units)
- PHIL 383 Ethics in Medicine (3 units)
- PHIL 384 Philosophy of Research Ethics (3 units)
- PHIL 395 Ethical Issues: Science and Technology (3 units)
- PHIL 435 Human Rights in Global Perspective (3 units)
- PHIL 436 Islamic Political Philosophy (3 units)
- PHIL 451 Feminist Moral Issues (3 units)
- PHIL 460 Philosophy of Art (3 units)
- PHIL 494 Philosophy and Personal Development (3 units)
Core Issues of the Discipline
Select any two of the following:
PHIL 350 Philosophy of Science (3 units)
PHIL 351 Philosophy of Risk (3 units)
PHIL 605 Metaphysics (3 units)
PHIL 610 Theory of Knowledge (3 units)
PHIL 611 Philosophy of Perception (3 units)
PHIL 620 Philosophy of Mind (3 units)
PHIL 621 Minds, Brains and Computers (3 units)
PHIL 630 Philosophy of Language (3 units)
PHIL 694 Philosophical Logic Workshop (3 units)
PHIL 695 Advanced Logic Workshop (3 units)
# Bachelor of Arts in Philosophy – PHIL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Philosophy. Up to three units in the major and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I ¹</td>
<td>3</td>
</tr>
<tr>
<td>if already satisfied, Select One of the Following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy ²</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy ³</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy ³</td>
<td></td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) ²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
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<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy ²</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy ³</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy ³</td>
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</tr>
<tr>
<td>or PHIL Elective if the Requirement is Already Satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy ³</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Being and Knowing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics ³</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
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<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 335</td>
<td>Law and Society ⁴</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Science ⁵</td>
<td></td>
</tr>
<tr>
<td>PHIL 351</td>
<td>Philosophy of Risk ⁵</td>
<td></td>
</tr>
<tr>
<td>PHIL 621</td>
<td>Minds, Brains and Computers ⁶</td>
<td></td>
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<tr>
<td>Major Elective – Take Two</td>
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<td>University Elective</td>
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<td>3</td>
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<td></td>
<td>Units</td>
<td>15</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>PHIL 696</td>
<td>Directed Reading: Learning Outcomes</td>
<td>1</td>
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<td>Major Normative Issues</td>
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<td>Major Core Issues</td>
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<td>Major Elective</td>
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<td>3</td>
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<tr>
<td>or University Elective if Major Requirements are Satisfied</td>
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</tbody>
</table>
University Electives

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
<tr>
<td>Total Units</td>
</tr>
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</table>

1. Students who have taken Symbolic Logic before transfer should take a Major History course (PHIL 301 or PHIL 302 or PHIL 516). Students who haven’t taken Symbolic Logic should take PHIL 205. Contact a Philosophy Department advisor for questions about the symbolic logic requirement.

2. If ENG 214 or equivalent is not completed prior to transfer, it will take a minimum of five semesters to complete degree requirements because it is a prerequisite for PHIL 320GW and many other upper division PHIL courses, including those satisfying UD GE.

3. PHIL 301, PHIL 302, PHIL 303, PHIL 450 and PHIL 516 fulfill GE UD-C.

4. PHIL 335 fulfills GE UD-D.

5. PHIL 350, PHIL 351, PHIL 621 fulfill GE UD-B.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE (9 units) – See grid above for courses that fulfill both Major requirements and UD GE.
- Students entering this major with the AA-T in Philosophy are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Philosophy Major: 37–40 Units**

Students are advised to work with a department advisor on the selection of courses.

- Foundation/GWAR (3–6 units): See note 2 above regarding PHIL 205.
- History (6 units)
- Normative Issues (9 units)
- Core Issues of the Discipline (9 units)
- Electives (9 units)
- Culmination (1 unit)

**University Electives: 11 or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Bachelor of Arts in Philosophy and Religion

The Philosophy and Religion degree program has some general aims similar to those of the Philosophy program; in addition, this course of study assists students in the exploration of the origin, nature, and structure of the quest for human meaning. The philosophy and religion degree includes the study of the spiritual thought and practice of diverse groups, communities, and individuals throughout the ages. Courses emphasize the central importance of integrating diverse areas of knowledge and experience into wider visions of human community, reading and analyzing texts, and developing skills for the disciplines of profound self-reflection and contemplation. Students will gain basic knowledge about diverse religious traditions and develop a deeper understanding of their special areas of interest. The goal of this program is to provide students with techniques and insights needed for rigorous examination of the issues, experiences, and concerns arising from religious quests for certainty, community, and social justice.

The department welcomes students from other majors or programs who wish to examine their personal philosophy and religious beliefs and practices, investigate the philosophies and religions of others, or sharpen their skills as independent thinkers.

Many of the courses offered are not only appropriate as part of a philosophy and religion major but are of special interest to students in other fields. These courses are designed to help students understand the theoretical frameworks, religious implications, and more abstract dimensions of the paramount areas of knowledge. Students interested in either the philosophical and religious understanding of a field of knowledge, or in philosophy and religion for self-understanding, should feel free to consult the department chairperson or an advisor on appropriate courses.

The philosophy and religion major program includes six units from related fields. This gives students an opportunity to integrate courses offered by other departments into the major, so long as those courses are substantially concerned with philosophy or religion and approved by an advisor. Undergraduate advisors are also authorized by the department to designate units obtained in other departments as satisfying unit requirements. Neither students nor advisors should view this as an escape clause which enables a student who has not quite satisfied the major requirements in philosophy and religion to do so. Units outside the department are to be designated for use in the major on the basis of their contribution to the student's major program. In order to avoid confusion on this point, students should obtain written approval from an advisor before obtaining non-department units to be utilized in the major.

Students who have not taken PHIL 110 may begin the program but should complete this course or its equivalent at the earliest opportunity. Equivalencies must be approved by a departmental advisor.

The Bachelor of Arts in Philosophy and Religion requires a minimum of 40 units, with at least 31 of these units being upper division. The program culminates in a one-unit personalized learning outcomes course in which students reflect philosophically on their development of skills and knowledge. This learning outcomes course, PHIL 696, can be taken in either the first or second semester of the student’s senior year.

The program offers a great deal of flexibility, permitting individualized emphases in specific areas. Students majoring in philosophy and religion are urged to lay out a tentative program of courses with their advisors early in their tenure at the university. Depending upon the student’s area of specialization, up to six units of courses outside the philosophy department may be approved by a department advisor as elective units for the B.A.

Career Outlook

A principal reason for the study of philosophy and religion is the enrichment of one's own life and understanding. Fortunately, the study of philosophy and religion also is an excellent preparation for a variety of post-baccalaureate professional studies and careers in law, medicine, public policy and strategic planning, the helping professions, computer-assisted enterprises, and innovative business and non-profit organizations.

The broader outlook and the ability to think critically about larger issues that are fostered by the systematic study of philosophy and religion are often highly valued by commercial firms in their management level personnel. Some students continue to graduate work in philosophy or religious studies. SF State graduates now are teaching in colleges across the country. And opportunities to teach philosophy in K–12 have increased as educators realize the importance of enhancing children’s critical thinking skills. The philosophy and religion program is a strong foundation for the helping professions, the ministry, and advanced studies in theology.

The B.A. in Philosophy and Religion requires a minimum of 40 units of which at least 31 must be upper division units.

Philosophy and Religion (B.A.) — 40 units

Foundation (9 units)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR 1</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 525/ RELS 300</td>
<td>The Nature of Religious Experience</td>
<td>3</td>
</tr>
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</table>

Comparative Thought (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 502</td>
<td>World Religions</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following or up to two 500 level Philosophy courses:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 494</td>
<td>Philosophy and Personal Development</td>
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History (9 units)

<table>
<thead>
<tr>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td></td>
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</table>

Philosophical Concepts (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 500</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 605</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 610 Theory of Knowledge</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Elective Units from Related Fields (6 units)

- Six elective units from related fields on advisement.
Culmination (1 unit)
PHIL 696 Directed Reading: Learning Outcomes 1

PHIL 320GW satisfies the Graduation Writing Assessment Requirement (GWAR). Students who have satisfied GWAR in a discipline other than philosophy will still be required to complete PHIL 320GW as a requirement of the major.

Complementary Studies for the Philosophy and Religion Major
Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degrees in Philosophy and Religion. These units must come from courses bearing a prefix other than PHIL, and not cross-listed with PHIL. Philosophy and Religion majors are given a multitude of pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner and deepen the student's knowledge and appreciation of a set of relevant issues in a multi-disciplinary way. Philosophy and Religion majors may, with the approval of a department advisor, elect to apply 12 units in a single foreign language of their choosing or; courses taken in an approved study abroad program (e.g., CSU Study Abroad). Otherwise, with the approval of a department advisor, the student may take 12 units of courses that complement the study of philosophy and religion. The study of philosophy and religion is enhanced by learning drawn from complementary areas, such as history and culture of Africa, American Indian studies, the arts, alternative medicine, history and culture of ancient religions, history and culture of Asian religions, bioethics/medical ethics and healing professions, business ethics, cinema studies, counseling, environmental studies, global history and culture, history and culture of Islam, Jewish studies, holistic medicine, the human sciences, oral and written communication, legal studies, literary studies, European studies, history and culture of Latin/Latino peoples, music, justice studies, LGBTQ studies, religious studies, sexuality studies, social justice, the social sciences, under-represented groups, women and gender studies. To accommodate emerging areas of philosophical study, students are encouraged to design 12-unit modules for the review and approval of the department advisor.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>LD</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Area</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

Transfer Student Roadmap (2 Year)
For students with an AA-T in Philosophy. This roadmap opens in a new tab. (p. 986)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Philosophy

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major.
Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Philosophy and Religion Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 40

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Introduction to Critical Thinking I (^1)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) (^2,3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) (^3)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two (^4)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
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<tr>
<td>or Complementary Studies or SF State Studies or University Elective (^4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) (^3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective (^4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>PHIL 450</td>
<td>Ethics</td>
<td>3</td>
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<tr>
<td>PHIL 502</td>
<td>World Religions</td>
<td>3</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective (^4)</td>
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<td><strong>Units</strong></td>
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<td>15</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR (^5)</td>
<td>3</td>
</tr>
<tr>
<td>Comparative Thought (6 units) (^6)</td>
<td>3</td>
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<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective (^4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<td></td>
<td>3</td>
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<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 525</td>
<td>The Nature of Religious Experience</td>
<td>3</td>
</tr>
<tr>
<td>Comparative Thought (6 units) (^6)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two (^4)</td>
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<td><strong>Units</strong></td>
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<td>Seventh Semester</td>
<td>Units</td>
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<td>Select One:</td>
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<tr>
<td>PHIL 301 Ancient Philosophy</td>
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<td>PHIL 302 Medieval Philosophy</td>
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<td>PHIL 516 Islamic Philosophy</td>
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<tr>
<td>PHIL 500 Philosophy of Religion</td>
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<td></td>
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<tr>
<td>Elective Units from Related Fields (6 units)</td>
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<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective 4</td>
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<td></td>
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<table>
<thead>
<tr>
<th>Eighth Semester</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHIL 605 or PHIL 610 Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 610 Theory of Knowledge</td>
<td></td>
</tr>
<tr>
<td>PHIL 696 Directed Reading: Learning Outcomes</td>
<td>1</td>
</tr>
<tr>
<td>Elective Units from Related Fields (6 units)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three 4</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Units 120-122

1 PHIL 110 or equivalent.
2 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
3 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
4 Complementary Studies for the Philosophy Major

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degrees in Philosophy and Religion. These units must come from courses bearing a prefix other than PHIL, and not cross-listed with PHIL. Philosophy and Religion majors are given a multitude of pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner and deepen the student’s knowledge and appreciation of a set of relevant issues in a multi-disciplinary way. Philosophy and Religion majors may, with the approval of a department advisor, elect to apply 12 units in a single foreign language of their choosing or; courses taken in an approved study abroad program (e.g., CSU Study Abroad). Otherwise, with the approval of a department advisor, the student may take 12 units of courses that complement the study of philosophy and religion. The study of philosophy and religion is enhanced by learning drawn from complementary areas, such as history and culture of Africa, American Indian studies, the arts, alternative medicine, history and culture of ancient religions, history and culture of Asian religions, bioethics/medical ethics and healing professions, business ethics, cinema studies, counseling, environmental studies, global history and culture, history and culture of Islam, Jewish studies, holistic medicine, the human sciences, oral and written communication, legal studies, literary studies, European studies, history and culture of Latina/Latino peoples, music, justice studies, LGBTQ studies, religious studies, sexuality studies, social justice, the social sciences, under-represented groups, women and gender studies. To accommodate emerging areas of philosophical study, students are encouraged to design 12-unit modules for the review and approval of the department advisor.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

5 PHIL 320GW satisfies the Graduation Writing Assessment Requirement (GWAR). Students who have satisfied GWAR in a discipline other than philosophy will still be required to complete PHIL 320GW as a requirement of the major.

6 PHIL 436 Islamic Political Philosophy (3 units)
PHIL 494 Philosophy and Personal Development (3 units)
or up to two 500 level Philosophy courses
# Bachelor of Arts in Philosophy and Religion – PHIL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Philosophy. All lower division GE requirements have been satisfied. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History – Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
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<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 502</td>
<td>World Religions</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 525/RELS 300</td>
<td>The Nature of Religious Experience</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History – Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td></td>
</tr>
<tr>
<td>Comparative Thought – Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 494</td>
<td>Philosophy and Personal Development</td>
<td></td>
</tr>
<tr>
<td>500-level PHIL not applied to another area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 500</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective From a Related Field</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 605 or PHIL 610</td>
<td>Metaphysics or Theory of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 696</td>
<td>Directed Reading: Learning Outcomes</td>
<td>1</td>
</tr>
<tr>
<td>Comparative Thought – Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 494</td>
<td>Philosophy and Personal Development</td>
<td></td>
</tr>
<tr>
<td>500-level PHIL not applied to another area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective from a related field</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
University Elective

<table>
<thead>
<tr>
<th>Units</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

1 PHIL 303, PHIL 436, PHIL 450, PHIL 500, PHIL 502, PHIL 516 and PHIL 525 satisfy Upper Division GE: UD-C.

2 ENG 214 or equivalent is a prerequisite for many upper division PHIL courses. If ENG 214 or equivalent is not completed prior to transfer, PHIL 320GW and PHIL 303 must be taken in the second semester; progress in the major and length of time for degree completion may be affected.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE (9 units): See grid above for courses that fulfill both Major requirements and UD GE.
- Students entering this major with the AA-T in Philosophy are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Philosophy and Religion Major: 40 Units

Students in this major are strongly advised to work with a department advisor to form a tentative program of courses.

- Foundation (9 units)
- Comparative Thought (9 units)
- History (9 units)
- Philosophical Concepts (6 units)
- Electives from Related Fields (6 units) – consult with major advisor
- Culmination (1 unit)

University Electives: Two or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major
Bachelor of Arts in Philosophy: Emphasis in Philosophy and Law

Philosophy and Law Emphasis

The Philosophy and Law emphasis enables students to earn a philosophy degree while focusing on our department’s rich array of undergraduate courses that consider such topics as the foundation of law, legal reasoning, U.S. and global human rights, social justice, law and society, health care law, sex and the law, philosophical foundations of the U.S. Constitution, philosophy of criminal justice, wrongs as crimes and torts, and theories of ethics and political philosophy that influence jurisprudence. Philosophy majors consistently receive the highest scores on the law school admissions test (LSAT). This program positions them to excel in law and public policy.

The enterprise of philosophy requires sharpening the skills necessary for clarifying premises, uncovering presuppositions (one’s own and those of others), weighing the pros and cons of conflicting values, and analyzing concepts and issues, all of which are crucial for graduate programs in law and public policy. Courses in philosophy serve to develop and enhance these skills. Some courses concentrate on specific philosophical issues. Others provide an overview of an entire area of human inquiry or endeavor (such as the sciences, the arts, political theory and law, medicine, social justice, and how our minds, senses, and emotions work) or of the philosophical foundations that characterize a historical period.

The department welcomes students from other majors or programs who wish to acquire excellent training for law schools, public policy programs, and the competitive admissions processes to these programs.

The emphasis in philosophy and law includes three units from related fields. This gives students an opportunity to integrate courses offered by other departments into the major, so long as those courses are substantially concerned with law and approved by an advisor. Undergraduate advisors are also authorized by the department to designate units obtained in other departments as satisfying unit requirements. Neither students nor advisors should view this as an escape clause which enables a student who has not quite satisfied the requirements of the philosophy and law emphasis to do so. Units outside the department are to be designated for use in the major on the basis of their contribution to the student’s major program. In order to avoid confusion on this point, students should obtain written approval from an advisor before obtaining non-departmental units to be utilized in the major.

Students who have not taken PHIL 110 may begin the program but should complete this course or its equivalent at the earliest opportunity. Equivalencies must be approved by a departmental advisor.

The Bachelor of Arts in Philosophy with Emphasis in Philosophy and Law requires a minimum of 43 units, with at least 31 of these units being upper division. The program culminates in a one unit personalized learning outcomes course in which students reflect philosophically on their own development of skills and knowledge. This learning outcomes course, PHIL 696, can be taken in either the first or second semester of the student’s senior year.

To best take advantage of the program’s tremendous resources in preparing students for law school, students pursuing the emphasis in philosophy and law are urged to lay out a tentative program of courses with their advisors early in their tenure at the university. Depending upon the student’s area of specialization, up to six units of courses outside the philosophy department may be approved by a department advisor as elective units for the B.A.

Philosophy (B.A.): Emphasis in Philosophy and Law — Minimum 43 Units

Required Courses (15 Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Being and Knowing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Disjunctive History Requirement (3 Units)

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
</tr>
</tbody>
</table>

Core Philosophy Areas Requirement (6 Units)

Select two courses from the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 351</td>
<td>Philosophy of Risk</td>
</tr>
<tr>
<td>PHIL 610</td>
<td>Theory of Knowledge</td>
</tr>
<tr>
<td>PHIL 620</td>
<td>Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 621</td>
<td>Minds, Brains and Computers</td>
</tr>
</tbody>
</table>

Normative Issues Requirement (6 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 330</td>
<td>Political Philosophy</td>
</tr>
<tr>
<td>PHIL 380</td>
<td>Philosophy of Law</td>
</tr>
</tbody>
</table>

Plus (9 units)

Select three of the following: 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PHIL 335</td>
<td>Law and Society</td>
</tr>
<tr>
<td>PHIL/GPS 375</td>
<td>Peace Law and Human Rights in the U.S.</td>
</tr>
<tr>
<td>PHIL 378</td>
<td>Philosophy of Criminal Law</td>
</tr>
<tr>
<td>PHIL 383</td>
<td>Ethics in Medicine</td>
</tr>
<tr>
<td>PHIL 384</td>
<td>Philosophy of Research Ethics</td>
</tr>
<tr>
<td>PHIL 395</td>
<td>Ethical Issues: Science and Technology</td>
</tr>
<tr>
<td>PHIL 435</td>
<td>Human Rights in Global Perspective</td>
</tr>
<tr>
<td>PHIL 436</td>
<td>Islamic Political Philosophy</td>
</tr>
<tr>
<td>PHIL 451</td>
<td>Feminist Moral Issues</td>
</tr>
<tr>
<td>PHIL 455/</td>
<td>Sex and the Law</td>
</tr>
<tr>
<td>SXS 569</td>
<td></td>
</tr>
<tr>
<td>PHIL 470</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>PHIL 494</td>
<td>Philosophy and Personal Development</td>
</tr>
</tbody>
</table>

Units Selected from the Following or on Advisement (3–4 Units)

Select 3-4 units of the following or on advisement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 375</td>
<td>Law and the Black Community</td>
</tr>
<tr>
<td>AIS 205</td>
<td>American Indians and U.S. Laws</td>
</tr>
<tr>
<td>C J 501</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>COMM 564</td>
<td>Issues in Free Speech</td>
</tr>
<tr>
<td>I R 330</td>
<td>World Law</td>
</tr>
</tbody>
</table>
Philosophy of Mathematics, Philosophy of Music, Philosophy of Mind, philosophical specializations in which studying philosophy and studying

Communication I

PLSI 561 Jurisprudence

USP 513/ GEOG 668/ PLSI 513

WGS 534 Gender and the Law 3

Culmination (1 Unit)

PHIL 696 Directed Reading: Learning Outcomes 1

1 PHIL 320GW satisfies the Graduation Writing Assessment Requirement (GWAR). Students who have satisfied GWAR in a discipline other than philosophy will still be required to complete PHIL 320GW as a requirement of the major.

Complementary Studies for the Philosophy Major

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degrees in Philosophy. These units must come from courses bearing a prefix other than PHIL, and not cross-listed with PHIL. Philosophy majors are given a multitude of pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner and deepen the student’s knowledge and appreciation of a philosophical topic in a multi-disciplinary way. Philosophy majors may, with the approval of a department advisor, elect to apply 12 units in a single foreign language of their choosing or courses taken in an approved study abroad program (e.g., CSU Study Abroad). Otherwise, with the approval of a department advisor, the student may take 12 units of courses that complement an area of philosophical specialization. Philosophy is rich in such specializations. Here are some illustrative philosophical specializations in which studying philosophy and studying other disciplines is complementary: Philosophy of the Arts, Ancient Philosophy, Asian Philosophy, Bioethics/Medical Ethics, Business Ethics, Philosophy of Cinema, Philosophy of Dance, Philosophy of Economics, Environmental Philosophy, Global Justice, Islamic Philosophy, Philosophy of Language, Philosophy of Law, Philosophy of Literature, Logic and Philosophy of Mathematics, Philosophy of Music, Philosophy of Mind, Modern European Philosophy, Philosophy of Music, Philosophy of Perception, Philosophy of Photography, Philosophy of Psychology/Cognitive Science, Political Philosophy and Social Justice, Philosophy of Religion, Philosophy of Sexuality, Philosophy of Science and Technology, Philosophy and Society, Philosophy of Social Science, Philosophy of Sport, Philosophy of Under-represented Groups, Philosophy of Women and Gender. To accommodate emerging areas of philosophical study, students are encouraged to design 12 unit modules for the review and approve of the department advisor.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
</tbody>
</table>

Lab Science  LD  1  B3
Mathematics/ Quantitative Reasoning Arts  LD  3  C1
Arts or Humanities  LD  3  C1 or C2
Humanities: Literature  LD  3  C3
Social Sciences  LD  3  D1
Social Sciences: US History  LD  3  D2
Social Sciences: US & CA Government  LD  3  D3
Lifelong Learning and Self-Development (LLD)  LD or UD  3  E
Physical and/or Life Science  UD  3  UD-B
Arts and/or Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)

This roadmap (p. 992) opens in a new tab

Transfer Student Roadmap (2 Year)

For students with an AA-T in Philosophy. This roadmap (p. 995) opens in a new tab.

This degree program is an approved pathway (“similar” major) for students earning the ADT in Social Justice Studies

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Arts in Philosophy: Emphasis in Philosophy and Law Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 43

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Introduction to Critical Thinking I ¹</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²,³</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3) ⁴</td>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁵</td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or Complementary Studies or SF State Studies or University Elective ⁵</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴</td>
<td>GE Area C: Arts (C1)</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁵</td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ⁵</td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
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</tr>
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</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>Complementary Studies or SF State Studies or University Elective ⁵</td>
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<tr>
<td><strong>Units</strong></td>
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</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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<td><strong>Select One:</strong></td>
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<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 330</td>
<td>Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Plus (9 units)</strong> ⁶</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>3-4 Units on Advisement ⁷</td>
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<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ⁵</td>
<td></td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
</tbody>
</table>
Seventh Semester

PHIL 380 Philosophy of Law 3
Plus (9 units) 6
Core Philosophy Areas (6 units) 8
GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)
Complementary Studies or SF State Studies or University Elective 5

Units 15

Eighth Semester

PHIL 696 Directed Reading: Learning Outcomes 1
Plus (9 units) 6
Core Philosophy Areas (6 units) 8
Complementary Studies or SF State Studies or University Elective – Take Three 5

Units 15

Total Units 120-123

1 PHIL 110 or equivalent.

2 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

3 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

4 Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5 Complementary Studies for the Philosophy Major

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degrees in Philosophy. These units must come from courses bearing a prefix other than PHIL, and not cross-listed with PHIL. Philosophy majors are given a multitude of pathways toward completing this requirement, each of which is designed to facilitate graduation in a timely manner and deepen the student’s knowledge and appreciation of a philosophical topic in a multi-disciplinary way. Philosophy majors may, with the approval of a department advisor, elect to apply 12 units in a single foreign language of their choosing or courses taken in an approved study abroad program (e.g., CSU Study Abroad). Otherwise, with the approval of a department advisor, the student may take 12 units of courses that complement an area of philosophical specialization. Philosophy is rich in such specializations. Here are some illustrative philosophical specializations in which studying philosophy and studying other disciplines is complementary: Philosophy of the Arts, Ancient Philosophy, Asian Philosophy, Bioethics/Medical Ethics, Business Ethics, Philosophy of Cinema, Philosophy of Dance, Philosophy of Economics, Environmental Philosophy, Global Justice, Islamic Philosophy, Philosophy of Language, Philosophy of Law, Philosophy of Literature, Logic and Philosophy of Mathematics, Philosophy of Music, Philosophy of Mind, Modern European Philosophy, Philosophy of Music, Philosophy of Perception, Philosophy of Photography, Philosophy of Psychology/Cognitive Science, Political Philosophy and Social Justice, Philosophy of Religion, Philosophy of Sexuality, Philosophy of Science and Technology, Philosophy and Society, Philosophy of Social Science, Philosophy of Sport, Philosophy of Under-represented Groups, Philosophy of Women and Gender. To accommodate emerging areas of philosophical study, students are encouraged to design 12 unit modules for the review and approval of the department advisor.

6

Plus (9 units)

PHIL 335 Law and Society (3 units)
PHIL 375 Peace Law and Human Rights in the U.S. (3 units)
PHIL 378 Philosophy of Criminal Law (3 units)
PHIL 383 Ethics in Medicine (3 units)
PHIL 384 Philosophy of Research Ethics (3 units)
PHIL 395 Ethical Issues: Science and Technology (3 units)
PHIL 435 Human Rights in Global Perspective (3 units)
PHIL 436 Islamic Political Philosophy (3 units)
PHIL 451 Feminist Moral Issues (3 units)
PHIL 455 Sex and the Law (3 units)
PHIL 470 Environmental Ethics (3 units)
PHIL 494 Philosophy and Personal Development (3 units)
7  AFRS 375 Law and the Black Community (3 units)
   AIS 205 American Indians and U.S. Laws (3 units)
   C J 501 Criminal Law (3 units)
   COMM 564 Issues in Free Speech (4 units)
   I R 330 World Law (4 units)
   LABR 251 Know Your Work Rights (3 units)
   PLSI 552 Individual Rights and the Constitution (4 units)
   PLSI 553 Legal Issues (4 units)
   PLSI 561 Jurisprudence (4 units)
   USP 513 Politics, Law, and the Urban Environment (4 units)
   WGS 534 Gender and the Law (3 units)

8  Core Philosophy Areas
   PHIL 351 Philosophy of Risk (3 units)
   PHIL 610 Theory of Knowledge (3 units)
   PHIL 620 Philosophy of Mind (3 units)
   PHIL 621 Minds, Brains and Computers (3 units)
Bachelor of Art in Philosophy: Emphasis in Philosophy and Law – PHIL
Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Philosophy. Up to three units in the major and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic 1</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 303</td>
<td>Modern Philosophy 2</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR 3</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
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<td></td>
</tr>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 302</td>
<td>Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 516</td>
<td>Islamic Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Being and Knowing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics 2</td>
<td>3</td>
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<tr>
<td>PHIL 610</td>
<td>Theory of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
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<td></td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 330</td>
<td>Political Philosophy 2</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 380</td>
<td>Philosophy of Law 2</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 621</td>
<td>Minds, Brains and Computers 4</td>
<td>3</td>
</tr>
<tr>
<td>Normative Issues Elective</td>
<td></td>
<td>3</td>
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<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 335</td>
<td>Law and Society 5</td>
<td>3</td>
</tr>
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<td>PHIL 696</td>
<td>Directed Reading: Learning Outcomes</td>
<td>1</td>
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<tr>
<td>Normative Issues Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Additional Elective for Emphasis (course outside PHIL on advisement)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>Units</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Units 60

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1. Students who have taken Symbolic Logic may take a University Elective. Students who haven’t taken Symbolic Logic should take PHIL 205.
2. PHIL 303, PHIL 330, PHIL 380 and PHIL 450 satisfy Upper Division GE: UD-C.
3. If ENG 214 or equivalent is not completed prior to transfer, it will take a minimum of five semesters to complete degree requirements because it is a prerequisite for PHIL 320GW and many other upper division PHIL courses, including those satisfying UD GE.
4. PHIL 621 fulfills Upper Division GE: UD-B.
5. PHIL 335 fulfills Upper Division GE: UD-D.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE (9 units): See grid above for courses that fulfill both Major and UD GE requirements.
- Students entering this major with the AA-T in Philosophy are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Philosophy (Emphasis in Philosophy and Law) Major: 40–44 Units

Students are advised to work with a department advisor on the selection of courses.

- Required/GWAR (12–15 units): See note 2 above regarding PHIL 205.
- Disjunctive History (3 units)
- Core Philosophy Areas (6 units)
- Normative Issues (15 units)
- Elective (3–4 units)
- Culmination (1 unit)

University Electives: Seven or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
### Bachelor of Art in Philosophy: Emphasis in Philosophy and Law – SJS

#### Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. Up to three units in the major and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>PHIL 303</td>
<td>Modern Philosophy ¹</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 320GW</td>
<td>Philosophical Analysis - GWAR ³</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 450</td>
<td>Ethics ¹</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) ³</td>
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<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
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</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic ³</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 321</td>
<td>Being and Knowing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 335</td>
<td>Law and Society ⁴</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 395</td>
<td>Ethical Issues: Science and Technology ⁵</td>
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<td>U.S. and California Government (p. 75)</td>
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<tr>
<td>or University Elective if US/CA Government met before transfer</td>
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<td><strong>Units</strong></td>
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<td><strong>15</strong></td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>Select one:</td>
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<tr>
<td>PHIL 301</td>
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<td>PHIL 302</td>
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<td>PHIL 516</td>
<td>Islamic Philosophy ¹</td>
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<td>PHIL 330</td>
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<td>PHIL 380</td>
<td>Philosophy of Law ¹</td>
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<td>PHIL 620</td>
<td>Philosophy of Mind</td>
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<td>University Elective</td>
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<td>3</td>
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<td><strong>Units</strong></td>
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<td><strong>15</strong></td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>PHIL 610</td>
<td>Theory of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 696</td>
<td>Directed Reading: Learning Outcomes</td>
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<td>Normative Issues Elective</td>
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</tr>
<tr>
<td>Additional Elective for Emphasis (course outside PHIL on advisement)</td>
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<td>3-4</td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
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<td><strong>60</strong></td>
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</table>

¹ PHIL 301, PHIL 302, PHIL 303, PHIL 330, PHIL 380, PHIL 450 PHIL 516 satisfy Upper Division GE: UD-C.

² If ENG 214 or equivalent is not completed prior to transfer, it will take a minimum of five semesters to complete degree requirements because it is a prerequisite for PHIL 320GW and many other upper division PHIL courses, including those satisfying UD GE.

³ PHIL 205 is highly recommended but not required of SJS AA-T students. Contact a Philosophy Department advisor for questions about this recommendation.

⁴ PHIL 335 fulfills Upper Division GE: UD-D.

⁵ PHIL 395 satisfies UD-B.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE (9 units): See grid above for courses that fulfill both Major and UD GE requirements.
- Students entering this major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Philosophy (Emphasis in Philosophy and Law) Major: 40–44 Units

Students are advised to work with a department advisor on the selection of courses.

- Required/GWAR (15 units): See note 3 above regarding PHIL 205.
- Disjunctive History (3 units)
- Core Philosophy Areas (6 units)
- Normative Issues (15 units)
- Elective (3–4 units)
- Culmination (1 unit)

University Electives: Seven or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Minor in Philosophy

The department welcomes students from other majors or programs who wish to examine their personal philosophy, investigate the philosophies of others, or sharpen their skills as independent thinkers. The enterprise of philosophy develops a wide array of skills necessary for clarifying premises, uncovering presuppositions (one’s own and those of others), weighing the pros and cons of conflicting values, and analyzing concepts and issues. Courses in philosophy serve to develop and enhance these skills. Some courses concentrate on specific philosophical issues. Others provide an overview of an entire area of human inquiry or endeavor (such as the sciences, the arts, political theory and law, medicine, social justice, and how our minds, senses, and emotions work) or of the philosophical foundations that characterize a historical period.

A great number of the courses offered are not only appropriate as part of a philosophy major but are of special interest to students in other fields. These courses are designed to help students understand the theoretical frameworks, methodological presuppositions, and more abstract dimensions of the paramount areas of knowledge.

Each student minoring in philosophy must take at least 21 units in philosophy, at least 15 of these being upper division units.

The flexibility of the philosophy minor and the wide array of philosophy courses allows students to choose a course of study that best suits their interests and complements their major program. Students interested in either the philosophical understanding of a field of knowledge or in philosophy for self-understanding should feel free to consult the department chairperson or an advisor on appropriate courses.

Minor in Philosophy and Religion

Philosophy and Religion Minor — 21 units

<table>
<thead>
<tr>
<th>Philosophy and Religion (all courses in the 500’s)</th>
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</thead>
<tbody>
<tr>
<td>Upper Division units in Philosophy</td>
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</tr>
<tr>
<td>Lower Division units in Philosophy</td>
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</tr>
</tbody>
</table>

The department welcomes students from other majors or programs who wish to examine their personal philosophy or religious beliefs, investigate the philosophies or religious views of others, or sharpen their skills as independent thinkers.

Many of the courses offered are not only appropriate as part of a philosophy and religion minor but are of special interest to students in other fields. These courses are designed to help students understand the theoretical frameworks, religious implications, and more abstract dimensions of the paramount areas of knowledge.

The flexibility of the philosophy and religion minor and the wide array of philosophy courses allows students to choose a course of study that best suits their interests and complements their major program. Students interested in either the philosophical and religious understanding of a field of knowledge, or in philosophy and religion for self-understanding, should feel free to consult the department chairperson or an advisor on appropriate courses.

Master of Arts in Philosophy

Admission to Program

To enter this program with classified graduate status, students should have completed the following five SF State undergraduate courses (or equivalents philosophy courses at another university) with a grade of B or better. Students who have not completed these prerequisites may begin the program as conditionally classified with the approval of the Graduate Coordinator in philosophy, but they will be required to make up any deficiencies by receiving a grade of 3.0 or better in each prerequisite class.

<table>
<thead>
<tr>
<th>PHIL 205</th>
<th>Formal Logic I</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 301</td>
<td>Ancient Philosophy</td>
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<tr>
<td>PHIL 303</td>
<td>Modern Philosophy</td>
<td>3</td>
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</tbody>
</table>

Select One Upper Division Course in Ethics

<table>
<thead>
<tr>
<th>PHIL 395</th>
<th>Ethical Issues: Science and Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 450</td>
<td>Ethics</td>
</tr>
<tr>
<td>PHIL 451</td>
<td>Feminist Moral Issues</td>
</tr>
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</table>

Select One Course in Core Area of Metaphysics and Epistemology

<table>
<thead>
<tr>
<th>PHIL 321</th>
<th>Being and Knowing</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Science</td>
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<td>PHIL 351</td>
<td>Philosophy of Risk</td>
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<td>PHIL 605</td>
<td>Metaphysics</td>
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<td>PHIL 610</td>
<td>Theory of Knowledge</td>
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<tr>
<td>PHIL 611</td>
<td>Philosophy of Perception</td>
</tr>
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<td>PHIL 620</td>
<td>Philosophy of Mind</td>
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<td>PHIL 621</td>
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<td>PHIL 630</td>
<td>Philosophy of Language</td>
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<td>PHIL 694</td>
<td>Philosophical Logic Workshop</td>
</tr>
<tr>
<td>PHIL 695</td>
<td>Advanced Logic Workshop</td>
</tr>
</tbody>
</table>

A GPA of at least 3.0 is expected for (1) the last 60 undergraduate units, and (2) all philosophy courses.

Applicants must submit a Philosophy Department Application, obtained online and returned to the department office, as well as the general university application form.

Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two different points in a student’s program.

Level One

Pre-admission writing sample.

Level Two

Satisfactory completion of the examination in PHIL 898 (and Oral Exam).

Advancement to Candidacy

To be advanced to candidacy so as to commence work formally on their M.A. thesis, students must be in the process of completing or else have completed 18 units with grades of B or better, which must include PHIL 715 and at least two other graduate seminars in philosophy. An “Advancement To Candidacy” form must be filed with Graduate Studies; students should file during the semester in which they expect to have reached 18 units or in the immediately following semester.
All upper division courses offered by Philosophy may be considered for the master’s degree, upon approval of the Graduate Coordinator. The graduate coordinator will not approve any course numbered 300–599 in which a student receives below an A–. Courses numbered 600 or higher must have received a grade of B– or higher, except that with permission of the Graduate Coordinator some courses in this range may be counted with a grade of CR.

Students become subject to declassification from the Philosophy MA program and/or disqualification from the university if they are on administrative/academic probation for more than one consecutive semester during their time as a graduate student.

**Philosophy (M.A.) – Minimum 33 Units**

**Course Requirements:**

Students must take three required courses: PHIL 715 Seminar in Philosophical Writing; PHIL 896 Directed Reading in Fundamental Philosophical Texts (the M.A. qualifying exam); PHIL 898 Master’s Thesis (and Oral Exam). PHIL 715 should be taken during the first year (preferably during the first semester of graduate coursework); PHIL 896 should be taken during the second or third semester of graduate coursework (and in consultation with the Graduate Coordinator); PHIL 898 should be taken during the final semester of coursework. Also required are four elective philosophy graduate seminars (12 units), as well as another 12 graduate or upper division elective units. Students may select from a wide array of graduate and upper division courses, including various kinds of supervised research and applied, practicum, or publication projects to complete the last group of 12 elective units, but at least three of the units in this group must be at the graduate level.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 715</td>
<td>Seminar in Philosophical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduate seminars in philosophy excluding PHIL 715</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Additional units in philosophy or in a related field with approval of</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate Coordinator (3 units must be at the graduate level)</td>
<td></td>
</tr>
<tr>
<td>PHIL 896</td>
<td>Directed Reading in Fundamental Philosophical Texts (A student who</td>
<td>3</td>
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<tr>
<td></td>
<td>fails the comprehensive examination at the end of this course may</td>
<td></td>
</tr>
<tr>
<td></td>
<td>repeat the course only once)</td>
<td></td>
</tr>
<tr>
<td>PHIL 898</td>
<td>Master’s Thesis (and Oral Examination in Defense of Thesis)</td>
<td>3</td>
</tr>
</tbody>
</table>

1. PHIL 715 should be taken during the first year (preferably during the first semester of graduate coursework)

2. PHIL 896 is a mandatory CR/NC course. Students who fail the exam may attempt it only once more, after enrolling again. Before enrolling again, students should consult with the Graduate Coordinator to determine when they are ready. It must be completed with a CR before the student may enroll in PHIL 898, the master’s thesis course.

3. PHIL 898 should be taken during the final semester of coursework.
POLITICAL SCIENCE

College of Liberal & Creative Arts
Dean: Andrew Harris

Department of Political Science
Humanities Building, (http://www.sfsu.edu/%7Esfsuman/swest.html) Room 304
Phone: (415) 338-2247
Chair: Nicole Watts
Graduate Coordinator: Katherine Gordy

Mission Statement
The Department of Political Science seeks to guide students towards becoming active and informed members of the community, locally and globally. We train students in five subfields—American Politics, Comparative Politics, Political Theory, Public Law, and Public Administration—with the aim of increasing their knowledge of the historical and geographical specificity of political power, institutions, values and practices, as well the ways in which these can be transformed. Our faculty supports students as they learn to think and act as conscious and fully engaged political agents, committed to social justice and political transparency and participation. Students leave the classroom with the knowledge and skills to open doors to diverse career opportunities.

Program Scope
Undergraduate study in political science is designed to develop knowledge, analytical skills, and critical insight into the nature of politics and political problems. The aim is to prepare students for active engagement in political life, whether as informed citizens or in a range of possible careers. The department endeavors to acquaint students with the issues of political life that have absorbed political thinkers and actors through the ages, as well as to equip students with the most contemporary skills for research analysis and policy making.

The Master of Arts in Political Science is designed for students who wish to proceed to further post-graduate study at the doctoral level as well as those who seek to terminate their study with the M.A. degree. Areas of specialization may include American politics, political theory, comparative politics, public law, research methods, as well as joint programs with International Relations and Public Administration. Community college credential programs and student teaching opportunities are also available in the last semester of work. Evening seminars are readily available. Limited financial aid is available in the form of teaching assistantships and research assistantships. The program is professional in its standards, substantive offerings, and levels of expectation.

Pre-Law Program
No specific major is required for admission to a school of law. Since law schools generally expect their students to have a broad foundation in the social sciences and humanities, selection of a major in such areas is recommended. For more information, the student should consult the catalog of the school of law to which s/he expects to apply for admission.

For pre-law students who choose a major in political science, special concentration courses appropriate as preparation for legal training are provided on advisement within the framework of the major program in political science. The Department of Political Science and the student-operated Pre-Law Advising Center also provide advising and other services (e.g., mock LSAT) for pre-law students in any major who wish to improve their preparation for law school.

Other Programs
Upon advisement, majors and minors in political science may select options enabling them to concentrate in a variety of career-related fields: education and teaching, public service, community action, professional (for students anticipating graduate study in political science), political journalism, research and policy analysis, comparative studies, and various area studies concentration and minors (with opportunity to focus on Asia, Europe, or the Mideast).

Professors
Belkin, Carcieri, Graham, Guo, Kassiola, Martel, Shastri, Smith, Tsygankov, Watts

Associate Professors
Hayduk, Gordy, McDaniel, Neely

Assistant Professors
Conway, Garcia-Castañón, Peck

Visiting Professor
Lewis

Lecturers
Caserta, Croshal, Emery, Green, Isaacs, Kashani, Lee, Loeb, Lozano, Otruba, Ovetz, Respini, Ryer, Schendan, Silverman, Welch

Majors
• Bachelor of Arts in Political Science (p. 1001)

Minors
• Minor in Political Science (p. 1009)

Masters
• Master of Arts in Political Science (p. 1009)

Bachelor of Arts in Political Science
Requirements
• At least 28 units for the major must be from upper division courses (300–699).
• Courses that fulfill the core and breadth requirements must be taken for a letter grade. CR/NC grading is not accepted for core and breadth courses.
• Students must earn a grade of C or better in the GWAR designated course, and a C– or better in all other core and breadth courses.
• Students in the major or minor may take up to four units CR/NC only for courses that satisfy part of the elective requirement.
• At least one political science (PWS) GWAR course must be chosen to count toward the Breadth Requirement or electives in political science.
Note: Students must take the Graduation Writing Assessment Requirement (GWAR) (composition) course in the major even if the student has taken a GWAR course in another department. The GWAR is satisfied by earning a C in any upper division course with the suffix GW. The department offers most of its courses with a GWAR and non-GWAR option. To satisfy the GWAR requirement you must successfully complete a course that contains the GW suffix; e.g., PLSI 477GW “Congress and the Presidency - GWAR” will satisfy the requirement - PLSI 477 “Congress and the Presidency” will NOT satisfy GWAR

Political Science (B.A.) – Minimum 40 Units

Core Requirements (13 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSI 200</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 250</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 275</td>
<td>Introduction to Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 300</td>
<td>Scientific Inquiry in Political Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: A PLSI GWAR course must be taken toward partial fulfillment of either the Breadth or Elective requirements.

Breadth Requirement (12 Units)

Upper division Political Science courses chosen to include at least one course in at least three of these five sub-fields:

- American politics,
- comparative politics,
- political theory,
- public administration and policy, and
- public law.

Electives (12 Units)

It is recommended that elective units be taken in political science. However, in some cases, up to eight upper division units may be selected from related departments with consent of a major advisor.

Culminating Experience (3-4 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSI 605</td>
<td>Senior Seminar in Applied Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 606</td>
<td>Senior Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 607</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 608</td>
<td>Seminar in Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 609</td>
<td>Seminar in Public Law: Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 612</td>
<td>Senior Seminar Study Abroad: At Beijing University</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Either a course that is taught by SF State political science faculty abroad or an equivalent study abroad course designated by an advisor.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case additional upper division courses will be needed to reach the required total.

Complementary Studies

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Political Science. These units must come from courses bearing a prefix other than PLSI and not cross-listed with PLSI (see department website for a list of examples of majors that offer such courses). Eight of the twelve Complementary Studies units may count toward the major by completing units in related disciplines. These courses should either have a direct bearing to the study of politics, or they should be shown to deepen and enrich the study of politics in particular and articulable ways. The student will consult with an advisor in the department (or the undergraduate advisor) to ensure that their choices fulfill the department’s requirements for Complementary Studies. Students can also satisfy their complementary studies by completing a related minor or secondary major, or through an approved Study Abroad program (see department website for more details)

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial Minorities (AERM)  
Environmental Sustainability (ES)  
Global Perspectives (GP)  
Social Justice (SJ)  

Note: LD = Lower Division; UD = Upper Division.

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in Political Science. This roadmap opens in a new tab. (p. 1007)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Political Science

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Political Science Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 40

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLSI 200</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<td>4</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>PLSI 250</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 275</td>
<td>Introduction to Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLSI 300</td>
<td>Scientific Inquiry in Political Science</td>
<td>4</td>
</tr>
<tr>
<td>Breadth Requirement (12 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (12 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>Breadth Requirement (12 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (12 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breadth Requirement (12 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (12 units)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course) 3
Complementary Studies or SF State Studies or University Elective – Take Two 4 6

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Breadth Requirement (12 units) 5</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives (12 units) 6</td>
<td>3</td>
</tr>
<tr>
<td>Culminating Experience (3-4 units) 7</td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-15</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-123</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies**
   - Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Political Science. These units must come from courses bearing a prefix other that PLSI and not cross-listed with PLSI (see department website for a list of examples of majors that offer such courses). Eight of the twelve Complementary Studies units may count toward the major by completing units in related disciplines. These courses should either have a direct bearing to the study of politics, or they should be shown to deepen and enrich the study of politics in particular and articulate ways. The student will consult with an advisor in the department (or the undergraduate advisor) to ensure that their choices fulfill the department’s requirements for Complementary Studies. Students can also satisfy their complementary studies by completing a related minor or secondary major, or through an approved Study Abroad program (see department website for more details).
   - Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
5. **Breadth Requirement (12 Units)**
   - Upper division Political Science courses chosen to include at least one course in at least three of these five sub-fields:
     - American politics,
     - Comparative politics,
     - Political theory,
     - Public administration and policy, and
     - Public law.
6. A PLSI GWAR course must be taken toward partial fulfillment of either the Breadth or Elective requirements.
7. **Electives (12 Units)**
   - It is recommended that elective units be taken in political science. However, in some cases, up to eight upper division units may be selected from related departments with consent of a major advisor.
   - A PLSI GWAR course must be taken toward partial fulfillment of either the Breadth or Elective requirements.
8. **Culminating Experience (3-4 units)**
   - PLSI 605 Senior Seminar in Applied Research Methods (4 units)
   - PLSI 606 Senior Seminar in American Politics (3 units)
   - PLSI 607 Seminar in Comparative Politics (3 units)
   - PLSI 608 Seminar in Political Theory (3 units)
   - PLSI 609 Seminar in Public Law: Legal Issues (3 units)
   - PLSI 612 Senior Seminar Study Abroad: At Beijing University (3 units)
8. Either a course that is taught by SF State political science faculty abroad or an equivalent study abroad course designated by an advisor.
Bachelor of Arts in Political Science – POLS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017-2018 with an AA-T in Political Science. At least three units in the major (PLSI 200) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLSI 250</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 300</td>
<td>Scientific Inquiry in Political Science</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLSI 275</td>
<td>Introduction to Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>Major Breadth ¹</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Major Elective – On Advisement ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>1</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Breadth – Take Two ¹</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Major Elective – On Advisement ²</td>
<td></td>
<td>3</td>
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<tr>
<td>University Elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>Major Elective – On Advisement – Take Two ²</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Culminating Experience – See List</td>
<td></td>
<td>3-4</td>
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<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>5-6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ One course taken to fulfill the Breadth or Elective categories must have the GW-suffix in order to satisfy the University GWAR requirement.

² It is possible that courses taken for the AA-T might be accepted as an Elective. Consult with your major advisor. However, community college courses are lower division so you must be sure to take at least 40 upper division units at SF State, with at least 28 of these units in the major.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University–Wide Requirements: 9–15 units**

- ENG 214 or equivalent A4 course (0-3 units) if not taken before transfer
- American Institutions (0-3 units): US History requirement if not completed prior to transfer. Please note: the US Government and California State and Local Government requirements were most likely completed as part of the AA-T. Check DPR to see whether this requirement is satisfied. If not, complete the requirement in place of a University Elective.
- Upper division GE, areas B, C, D (9 units) – Check for PLSI courses that will satisfy both a major requirement and GE UD-D.
- Students entering this major with the AA-T in Political Science are not required to fulfill SF State Studies requirements.
Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Political Science Major: 31–38 Units
PLSI 200 met in transfer.

- Core (4–10 units): PLSI 300, and PLSI 250 and PLSI 275 if not met in transfer
- Breadth requirement (12 units): One upper division course from three of five sub-fields: American politics; comparative politics; political theory; public administration and policy; public law. Note: PLSI courses are three or four units.
- Electives (12 units): Courses from areas outside of PLSI may be used with department advisor’s approval.
- Culminating Experience (3–4 units): See list below.

University Electives: Ten or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State - some courses may meet more than one requirement, e.g. in both UD GE and the major.

Culminating Experience

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSI 605</td>
<td>Senior Seminar in Applied Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>PLSI 606</td>
<td>Senior Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 607</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 608</td>
<td>Seminar in Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 609</td>
<td>Seminar in Public Law: Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 612</td>
<td>Senior Seminar Study Abroad: At Beijing University</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Political Science

Political Science Minor – 21 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSI 200</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 250</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select upper division electives in political science in consultation with a political science advisor to serve the student’s interests and goals 15

Master of Arts in Political Science

Admission to Program

Most political science graduate students have an undergraduate degree in political science. While this is recommended, the department accepts applications from students with other majors.

The minimum cumulative GPA is 3.25. Applicants with lower GPAs may be considered if they have received scores of 550 or above on both the math and verbal portions of the GRE exam.

All applicants are required to submit two letters of recommendation evaluating their ability, promise, and past performance.

All foreign students whose native language is not English are required to meet all SF State requirements, including a score that meets University requirements on the Test of English as a Foreign Language (TOEFL). See the University requirements for specific scores.

Applications are to be received by April 1st for the fall semester, and November 1st for the spring semester.

Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One (preamission/admission)

A GRE score that demonstrates proficiency in writing (i.e., a score of 4.0 or better). Students who do not meet this requirement must take an appropriate graduate level writing course in their first year at SF State.

Level Two

Satisfactory completion of Culminating Experience requirements - either a Comprehensive Exam in two fields or M.A. thesis. Students who elect to take the Comprehensive Exam must enroll in PLSI 896EXM.

Advancement to Candidacy

Candidates for the M.A. degree must have classified status; have successfully completed PLSI 700, PLSI 740, PLSI 760 and PLSI 780; maintained an overall grade point average of 3.0; and have the approval of the graduate coordinator.

Political Science (M.A.) – Minimum 30 units.

Core Requirements (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PLSI 700</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 740</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 760</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PLSI 780</td>
<td>Seminar in Political Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Requirements (6–9 units)

Students choosing to do a thesis should take at least two courses; those opting for comprehensive examinations should select three courses from the following:

- Topics in American Politics – Any political science course with a number in the range of 741 to 799
- Topics in Comparative Politics – Any political science course with a number in the range of 761 to 779
- Topics in Political Theory – Any political science course with a number in the range of 781 to 797
- or graduate seminar (3–4 units) in a related field upon advisement and approval

Related Courses (9 units)

Graduate seminars and/or upper division undergraduate courses in political science or related fields upon advisement and approval of the graduate coordinator.

Culminating Requirement (0–3 units)

PLSI 896EXM Culminating Experience Examination 0 or PLSI 898 Master’s Thesis

Students who want to enroll in a course of independent study (PLSI 899) must have a GPA of at least 3.25.
RELGIOUS STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

Religious Studies Program
HUM 388
Phone: (415) 338–1596
Coordinator: Michael Sudduth
Undergraduate Advisors: Mohammad Azadpur, Pamela Hood, Fred Astren

Program Scope
The Minor in Religious Studies offers students the opportunity to study the full spectrum of humankind's religious heritage from an interdisciplinary perspective. Religion is an individual as well as a social phenomenon and the curriculum takes the students through both realms. Basic value questions are investigated from the viewpoint of religion, of disciplines looking at religion and of the individual in a pluralistic, unsettled world. More than half the minor is individually selected in consultation with an advisor, though the courses must represent the different dimensions of the religious experience as listed on the "Courses" page. Students may choose to focus their course combination in the minor on a specific religious tradition such as Judaism, Islam, Christianity, Buddhism; on a particular issue common to different religions; or on a particular culture or historical period.

As an interdisciplinary minor, religious studies can be taken in conjunction with any major.

Career Outlook
The religious studies minor provides an excellent background for those considering the ministry, social work, counseling, politics, law, or teaching at any level. As a help in shaping a person’s view of the meaning and purpose of life, it can be of lasting value whatever one’s career.

Religious Studies Minor — 21 units

Introduction to Religious Traditions (3 units)
PHIL 502 World Religions
or comparable course completed at another institution

The Nature of Religious Experience (3 units)
PHIL 525/ RELS 300 The Nature of Religious Experience
or PHIL 500 Philosophy of Religion

The Dimensions of Religious Experience (12 units)
Select one course from each of the following categories; no more than two courses from a single discipline.

The Expressive Dimensions of Religious Experience
ART 202 Western Art History II
ART/HUM 205 Asian Art History
CWL 260 Myths of the World
DANC 430 Historical Survey of Dance in the Western World
DANC/ANTH 657 Ethnology of Dance
ENG 503 Studies in Medieval Literature

The Study of Particular Religious Traditions
AFRS 326 Black Religion
AIS 310 American Indian Religion and Philosophy
AIS 450 American Indian Science
CLAS 230 Ancient Epic Tales
ENG 501 Age of Chaucer
ENG 630 Selected Studies
HIST 110 History of Western Civilization I
HIST 111 History of Western Civilization II
HIST 321 Hellenistic Greece
HIST 326 The Byzantine Empire
HIST 328 Early Christian Church to 313
HIST 329 Early Christian Church: 313-787
HIST 331/ HUM 404 The High Middle Ages
HIST 336 The Reformation
HIST/HUM 480 Thought and Culture in America to 1880
HUM 403/ The Early Middle Ages
HIST 330
HUM 404/ HIST 331 The High Middle Ages
JS 410/PHIL 514 Kabbalah and Mysticism in the Jewish Tradition
JS 425/PHIL 552 Judaism: Religion and Text
JS/PHIL/HUM 501 Judaism, Christianity, and Islam
PHIL 302 Medieval Philosophy
PHIL 436 Islamic Political Philosophy
PHIL 509 The Buddhist Tradition
PHIL 511 Chinese Philosophy and Religion
PHIL 516 Islamic Philosophy
PHIL 530 Selected Religious Thinkers
WGS 565 Muslim Feminisms

The Study of Religious Phenomena: Disciplinary Perspectives
ANTH 570 Anthropology of Religion
HUM 345 Humanism and Mysticism
PHIL 500 Philosophy of Religion

The Senior Experience (3 units)
RELS 696 Directed Reading in Religious Studies

ENG 525 Studies in American Literature
ENG 580 Individual Authors
ENG 589 Milton
MUS 505 Music of the World’s Peoples
TH A 401 Theatre Backgrounds: 500 B.C. - 1642
SOUTH ASIAN STUDIES

College of Liberal & Creative Arts
Dean: Andrew Harris

South Asian Studies Program
Ethnic Studies and Psychology Building, Room 411
Phone: (415) 405–0389
Co-Coordinator: Falu Bakrani, Ethnic Studies

Humanities Building, Room 437
Phone: (415) 338–3128
Co-Coordinator: Kasturi Ray, Women and Gender Studies

Program Scope
South Asian Studies is the focus of this minor. South Asia refers to Pakistan, Afghanistan, India, Nepal, Bhutan, Maldives, Bangladesh, and Sri Lanka. These countries are members of the South Asian Association for Regional Cooperation (SAARC). The South Asian Studies minor is multidisciplinary and is designed to provide students with a broad understanding of the culture, history, economics, and politics of South Asia and its diaspora. The region of South Asia is a crucial area of study given its linguistic, ethnic, and religious diversity (its traditions draw from Hinduism, Islam, Buddhism, Jainism, and Christianity), its experience of British colonial rule and independence, its recent economic expansion and technological influence globally, and the widespread migration of South Asians over the last century. The study of South Asia thus offers students opportunities to explore pressing questions concerning colonialism and nationalism, political conflict and government, economic liberalization, cultural diversity and its expression in literature, art, and popular culture, and globalization.

The region of South Asia is a crucial area of study given its linguistic, ethnic, and religious diversity (its traditions draw from Hinduism, Islam, Buddhism, Jainism, and Christianity), its experience of British colonial rule and independence, its recent economic expansion and technological influence globally, and the widespread migration of South Asians over the last century. The study of South Asia thus offers students opportunities to explore pressing questions concerning colonialism and nationalism, political conflict and government, economic liberalization, cultural diversity and its expression in literature, art, and popular culture, and globalization.

The South Asian Studies minor is useful for students planning careers in education, social service, law, politics, government, business, media, and art, both nationally and internationally. It also prepares students for graduate study in a number of academic fields.

South Asian Studies Minor
The minor consists of 18 units; three courses are taken from the core curriculum, which give students a basic framework for South Asian studies. These courses fully concentrate on South Asia and/or the diaspora and provide students with a broad introduction to the history, culture, and politics of South Asia (one course each need to be taken from the clusters of “Culture of South Asia,” “History and Politics of South Asia,” and “South Asian Diaspora”).

The remaining units can be taken from the core curriculum or from a long list of electives. Elective courses provide the opportunity for more in-depth or topical and comparative study as well as the study of South Asia in relation to other regions of the world.

The minor is designed to give flexibility to students who can select from courses across disciplines, including Art, Asian American Studies, Economics, English, Ethnic Studies, History, Holistic Health, Humanities, International Business, International Relations, Philosophy, Political Science, and Women and Gender Studies.

For more information, contact the program directors: Falu Bakrani (bakrani@sfsu.edu) or Kasturi Ray (kasturi@sfsu.edu).

Core
Select at least three courses (9–17 units) from the core according to the requirements indicated below. The core consists of three core areas identified as Culture of South Asia, History and Politics of South Asia, and South Asian Diaspora.

South Asian Studies Minor — Minimum 18 units

Core (9–17 units)
Core Area 1: Culture of South Asia (3–6 units)
ART 502  Asian Art: Special Areas (prerequisite of ART 205) 3
HUM 535  Classical South Asian Cultural Forms 3
HUM 536  Modern South Asian Cultural Forms 3

Core Area 2: History and Politics of South Asia (3–8 units)
HIST 584  India and the British Empire 3
IR 326  South and Southeast Asia Foreign Relations 4
PLSI/I R 412  South Asian Politics 4
PLSI 415  Politics of India 4

Core Area 3: South Asian Diaspora (3 units)
AA S 540  South Asians in the United States 3
RRS 657/ AA S 541  South Asian Diaspora 3

Electives (1–9 units)
Select any courses not completed in fulfillment of the core above
AA S 210  History of Asians in the United States 3
or AA S 510  Asian Americans in California 3
ART 417  The Art and Architecture of Islam 3
ART/HUM 205  Asian Art History 3
HIST 585  India since Gandhi 3
HIST 606  History of Iran and Afghanistan 1500 - Present 3
HUM 366  India’s Gandhi 3
HUM 375  Biography of a City (Delhi) 3
MUS 530  Musics of the Middle East and India 3
PHIL 509  The Buddhist Tradition 3
PLSI/I R 416  Ethnicity and Nationalism 4
SNSK 699  Independent Study 1–3
THEATRE ARTS

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Theatre and Dance
Creative Arts Building, Room 103
(415) 338-1341
Website: http://theatredance.sfsu.edu
E-mail: thtrdcn@sfsu.edu (tha@sfsu.edu)

Director: Todd Roehrman
Graduate Coordinator: Bruce Avery
MFA Graduate Coordinator: John Wilson

Program Scope
The School of Theatre and Dance offers a comprehensive program of both practical and theoretical courses for undergraduate and graduate students whose interests center on various aspects of educational and professional theatre.

The curriculum provides the student with a foundation for advanced study in the dramatic arts, for teaching, or for a career in professional theatre. As a center for the training of future theatre artists, the School is committed to introducing a diversity of theatrical traditions and cultures to students. To this end, the School employs its two dedicated theatre spaces and its one shared theatre space as learning laboratories in which students collaborate with faculty and guest professionals. Studio workshops and advanced stage productions in those theatres are the culmination of the educational experience.

The School actively seeks and facilitates interdisciplinary programs of study and production with other members of the College of Liberal & Creative Arts as well as with departments and programs from across the campus. The School also encourages and facilitates collaboration with off-campus area theatres. In these ways, we enlarge students' experiences, and open new connections between students, the college, the campus as a whole, and the community, offering students an education grounded in practical professional stage practices as well as diverse on-campus academic and production experiences.

The diverse backgrounds of both faculty and students in the program provide our campus and community with a wealth of theatrical experiences and attractions. Graduates of the program are prominent in professional theatre throughout the nation, with positions of leadership in theatre, television, film, and theatre education.

Fundamental to the major program is a core of required courses designed to develop a foundation upon which to elect, upon advisement, one of the following areas of emphasis: performance, play development and dramaturgy, technical theatre and design, or popular theatre.

The minor program is not a requirement for any credential or degree but is intended to give the student an opportunity to pursue an interest in theatre arts.

The Master of Fine Arts in Theatre Arts offers a Concentration in Design/Technical Production. The three-year M.F.A. is designed to provide rigorous, professional training to prepare students for careers as professional theatre artists or artist teachers. The concentration focuses on specialized skills in the areas of scene design, costume design, lighting design, and/or technical production.

The M.F.A. program combines the elements of professional practice and scholarly work to project a production concept through a specific discipline. The philosophy of the curriculum is based on two necessities of theatrical art: collaboration and discipline. Students progress through a full-time sequence of courses which trains them to work with other specialized theatre artists in realizing a total work of theatre, as well as to excel in their own chosen arts. The program is designed to develop the candidate's practical skills and personal strengths towards motivating communication, commitment, and support among the production group.

The Master of Arts in Theatre Arts provides training for students wishing to expand their knowledge and increase their competence in the fields of history and literature of the theatre, acting, directing, theatre design, and production; seeking teaching credentials where the master's degree is required; and preparing for further graduate work elsewhere.

Facilities
The School produces its plays in four performance spaces: McKenna Theatre, a proscenium stage with orchestra pit, fly system, and film/video projection systems is the largest theatre in the College of Liberal & Creative Arts with a seating capacity of 701. The Little Theatre is a smaller proscenium stage with fly system and a seating capacity of 218. The lab is a black box theatre with a seating capacity of 55. The Studio is a new 2,500 square foot, sprung floor facility supporting dance, movement classes and rehearsals, and serves as a flexible performance space for dance and theatre pieces alike. The performance spaces are supported by outstanding technical facilities. Theatre Arts classes and production work are conducted, with professional supervision, in the Scene/Paint Shop, Costume Shop, Properties Shop, Lighting Laboratory, and Sound Design Laboratory.

Career Outlook
Career opportunities in theatre arts include performance and technical positions in professional, regional, and community theatres, as well as the areas of film and television, for actor, director, stage manager, designer (lighting, costume, scenery, and props), and craftsperson (stitcher, carpenter, props artisan). Teaching positions range from elementary and high school theatre classes through community college and university curricula in all aspects of the dramatic arts. Other career possibilities include such diverse fields as advertising, design (interior, fashion, display), drama therapy, and recreation.

Professors
Arhelger, Avery, Conboy, Daw, Eilenberg, Goto, Kowsar, Peters, Roehrman, Schechter, Tomalin, Washington, Wilson

Associate Professors
Damashek, Schwartz, Wayth

Assistant Professor
Davis

Majors
- Bachelor of Arts in Drama (p. 1013)
- Bachelor of Arts in Dance (p. 750)
- Subject Matter Program in Physical Education-Concentration in Dance (p. 536)
(coordinated with Department of Kinesiology)

Minors

- Minor in Drama (p. 1020)
- Minor in Dance (p. 756)

Masters

- Master of Fine Arts in Theatre Arts: Concentration in Design/Technical Production (p. 1022)
- Master of Arts in Theatre Arts (p. 1021)

Bachelor of Arts in Drama

The core consists of the 27 units listed below while the area of emphasis consists of 18 units of required and elective courses. No fewer than 12 units, planned with and approved by an assigned advisor, must be taken in residence study.

Drama (B.A.) — 45 units

Core Courses (27 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 130</td>
<td>Acting Workshop I</td>
<td>3</td>
</tr>
<tr>
<td>TH A 205</td>
<td>Introduction to Technical Theatre and Design</td>
<td>2</td>
</tr>
<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
<td>3</td>
</tr>
<tr>
<td>TH A 403</td>
<td>Theatre Backgrounds: 1900 - Present</td>
<td>3</td>
</tr>
<tr>
<td>TH A 405GW</td>
<td>Writing about Theatre - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>TH A 515</td>
<td>Leadership and Organization for Production</td>
<td>3</td>
</tr>
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</table>

Select 4 units of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 310</td>
<td>Scenery and Properties Laboratory and Crew</td>
<td></td>
</tr>
<tr>
<td>TH A 312</td>
<td>Costuming and Makeup Laboratory and Crew</td>
<td></td>
</tr>
<tr>
<td>TH A 313</td>
<td>Lighting and Sound Laboratory and Crew</td>
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</tbody>
</table>

Select 3 units of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 340</td>
<td>Principles of Directing</td>
<td>3</td>
</tr>
<tr>
<td>TH A 341</td>
<td>History of Directing</td>
<td></td>
</tr>
<tr>
<td>TH A 460</td>
<td>Play Development Workshop</td>
<td></td>
</tr>
<tr>
<td>TH A 531</td>
<td>Styles of Acting</td>
<td></td>
</tr>
</tbody>
</table>

Area of Emphasis (18 units)

Selected on advisement.

Area of Emphasis

The B.A. in Drama offers four areas of emphasis: Performance, Play Development and Dramaturgy, Design and Technical Theatre, and Popular Theatre. Information about the specific requirements of each Area of Emphasis may be obtained at the Theatre Arts office or by visiting the School’s website (http://theatre.sfsu.edu); theatredance.sfsu.edu/. (http://theatredance.sfsu.edu)

Teaching Credential: The Single Subject Approved Program (English Subject Matter: Drama Emphasis) requires completion of courses in English as well as Theatre Arts. For details on this program, please consult credential advisors in the English Teacher Resource and Advising Center.

Complementary Studies

Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Drama. These units must come from courses bearing a prefix other than TH A, and not cross-listed with TH A. Theatre Arts majors are offered several paths toward completing this requirement, each of which is designed to facilitate graduation in a timely manner:

- 12 units in a single foreign language;
- 12 units in an approved study abroad program;
- 12 units from a partially completed second major or minor;
- 12 units in a related discipline or coherent group of classes from related disciplines as approved by a School of Theatre and Dance Advisor.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
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<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
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<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
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<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
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<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
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<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
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<td>B4</td>
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<td>3</td>
<td>C1 or C2</td>
</tr>
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<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
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<td>LD</td>
<td>3</td>
<td>D3</td>
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<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
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<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial Minorities (AERM)  
Environmental Sustainability (ES)  
Global Perspectives (GP)  
Social Justice (SJ)  

LD or UD  
3  
LD or UD  
3  
LD or UD  
3  
LD or UD  
3  

Note: LD = Lower Division; UD = Upper Division.

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in Theatre Arts. This roadmap opens in a new tab. (p. 1018)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Theatre Arts

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Drama Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 130</td>
<td>Acting Workshop I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td>1 or Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td>1 or Critical Thinking (A3)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3 if not already satisfied</td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
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<td><strong>Fifth Semester</strong></td>
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<td>Select One:</td>
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<td>TH A 340</td>
<td>Principles of Directing</td>
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<td>TH A 341</td>
<td>History of Directing</td>
<td></td>
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<tr>
<td>TH A 460</td>
<td>Play Development Workshop</td>
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<tr>
<td>TH A 531</td>
<td>Styles of Acting</td>
<td></td>
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<td>TH A 403</td>
<td>Theatre Backgrounds: 1900 - Present</td>
<td>3</td>
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<tr>
<td>TH A 405GW</td>
<td>Writing about Theatre - GWAR</td>
<td>3</td>
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<tr>
<td>Area of Emphasis (18 units)</td>
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<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td><strong>Sixth Semester</strong></td>
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<td>TH A 205</td>
<td>Introduction to Technical Theatre and Design</td>
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<td>Select One:</td>
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<td>2</td>
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<td>TH A 310</td>
<td>Scenery and Properties Laboratory and Crew</td>
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</tr>
<tr>
<td>Course</td>
<td>Title and Description</td>
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</tr>
<tr>
<td>--------</td>
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</tr>
<tr>
<td>TH A 312</td>
<td>Costuming and Makeup Laboratory and Crew</td>
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<td>TH A 313</td>
<td>Lighting and Sound Laboratory and Crew</td>
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**Area of Emphasis (18 units)**

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<th>Requirement</th>
<th>Units</th>
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Total Units: 15

**Seventh Semester**

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<td>Leadership and Organization for Production</td>
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<th>Requirement</th>
<th>Units</th>
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<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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Total Units: 15

**Eighth Semester**

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<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
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</table>

Total Units: 15

Total Units: 120-122

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. **Complementary Studies**
   
   Twelve units of complementary studies are required of all candidates for the Bachelor of Arts degree in Drama. These units must come from courses bearing a prefix other than TH A, and not cross-listed with TH A. Theatre Arts majors are offered several paths toward completing this requirement, each of which is designed to facilitate graduation in a timely manner:
   
   - 12 units in a single foreign language;
   - 12 units in an approved study abroad program;
   - 12 units from a partially completed second major or minor;
   - 12 units in a related discipline or coherent group of classes from related disciplines as approved by a School of Theatre and Dance Advisor.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement to ensure degree completion within 60 units.

5. **Area of Emphasis (18 units)**

   The B.A. in Drama offers four areas of emphasis: Performance, Play Development and Dramaturgy, Design and Technical Theatre, and Popular Theatre. Information about the specific requirements of each Area of Emphasis may be obtained at the Theatre Arts office or by visiting the School’s website [http://theatre.sfsu.edu/](http://theatre.sfsu.edu/) or [http://theatredance.sfsu.edu/](http://theatredance.sfsu.edu/).

   Teaching Credential: The Single Subject Approved Program (English Subject Matter: Drama Emphasis) requires completion of courses in English as well as Theatre Arts. For details on this program, please consult credential advisors in the English Teacher Resource and Advising Center.
Bachelor of Arts in Drama – THA Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with the AA-T in Theatre Arts. Three lower division units in the major (TH A 130) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 205</td>
<td>Introduction to Technical Theatre and Design 1</td>
<td>2</td>
</tr>
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<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 310</td>
<td>Scenery and Properties Laboratory and Crew</td>
<td>3</td>
</tr>
<tr>
<td>TH A 312</td>
<td>Costuming and Makeup Laboratory and Crew</td>
<td></td>
</tr>
<tr>
<td>TH A 313</td>
<td>Lighting and Sound Laboratory and Crew</td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
<td></td>
</tr>
<tr>
<td>TH A 403</td>
<td>Theatre Backgrounds: 1900 - Present</td>
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</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met before transfer.</td>
<td>3</td>
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<tr>
<td>or University Elective if US History before transfer</td>
<td>or University Elective if US History before transfer</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>17</td>
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<td>Select One:</td>
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<td></td>
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<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
<td></td>
</tr>
<tr>
<td>TH A 403</td>
<td>Theatre Backgrounds: 1900 - Present</td>
<td></td>
</tr>
<tr>
<td>TH A 405GW</td>
<td>Writing about Theatre - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH A 310</td>
<td>Scenery and Properties Laboratory and Crew</td>
<td>2</td>
</tr>
<tr>
<td>TH A 312</td>
<td>Costuming and Makeup Laboratory and Crew</td>
<td></td>
</tr>
<tr>
<td>TH A 313</td>
<td>Lighting and Sound Laboratory and Crew</td>
<td></td>
</tr>
<tr>
<td>TH A 515</td>
<td>Leadership and Organization for Production</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D 2</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>14</td>
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<tr>
<td>Select One:</td>
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<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
<td>3</td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
<td></td>
</tr>
<tr>
<td>TH A 403</td>
<td>Theatre Backgrounds: 1900 - Present</td>
<td></td>
</tr>
</tbody>
</table>
To Do at SF State:
Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE areas B, C, D (9 units): See Note 2 above. Check for courses that satisfy both UD GE and major requirements.
- Students entering the major with the AA-T in Theatre Arts are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Drama (Theatre Arts) Major: 42 Units
TH A 130 met in transfer.
- Core (24 units)
- Area of Emphasis (18 units) – consult with a major advisor. Four areas of emphasis are offered: Technical Theatre and Design; Play Development and Dramaturgy; Popular Theatre; Performance.

University Electives: Zero or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.

Major Core – Directing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 340</td>
<td>Principles of Directing</td>
<td>3</td>
</tr>
<tr>
<td>TH A 341</td>
<td>History of Directing</td>
<td>3</td>
</tr>
<tr>
<td>TH A 460</td>
<td>Play Development Workshop</td>
<td>3</td>
</tr>
<tr>
<td>TH A 531</td>
<td>Styles of Acting</td>
<td>3</td>
</tr>
</tbody>
</table>

1 TH A 205 must be taken in combination with TH A 310 or TH A 312 or TH A 313.
2 Courses approved for UD-C also satisfy emphasis requirements (Play Development, Popular Theatre, Performance).
Minor in Drama

Minor in Drama – 22 units

Recommended Foundation (11 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 130</td>
<td>Acting Workshop I</td>
<td>3</td>
</tr>
<tr>
<td>TH A 200</td>
<td>Introduction to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TH A 205</td>
<td>Introduction to Technical Theatre and Design</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 401</td>
<td>Theatre Backgrounds: 500 B.C. - 1642</td>
</tr>
<tr>
<td>TH A 402</td>
<td>Theatre Backgrounds: 1642 - 1900</td>
</tr>
<tr>
<td>TH A 403</td>
<td>Theatre Backgrounds: 1900 - Present</td>
</tr>
</tbody>
</table>

Electives (11 units)

Electives chosen in consultation with an advisor. Eight units must be at the upper division level.
Master of Arts in Theatre Arts

Graduate Advisors: Eilenberg, Kowas, Schechter

Admission

Applications for classified status in the M.F.A. program are accepted beginning October 1 of the preceding year, for admission the following fall. Applications for classified status in the M.A. program are accepted beginning October 1 of the preceding year, for admission the following fall.

For both programs, contact the School office and the SF State Division of Graduate Studies for specific application deadlines in March for fall and October for spring.

Applicants are required to file the CSU Graduate Admission Application with the SF State Division of Graduate Studies and submit requested materials to the School of Theatre and Dance. Admission to classified status requires acceptance by both the University and the School of Theatre and Dance.

Students must meet University and School requirements and must normally have completed an undergraduate major in theatre arts.

Consideration is given to students with a strong undergraduate minor or other relevant work. Admission to the program is based on evaluation of a student's previous work and supporting materials.

Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One

Evaluation of applicant’s statement of purpose, which is a written requirement for admission to classified status in the theatre arts program. On the basis of this material, the M.F.A. or M.A. graduate coordinator may properly advise a student of the need to obtain additional skills in writing. If remedial work is required, it is so indicated as a condition to classified status.

Level Two

Evaluation of the student’s written work while enrolled in TH A 700, TH A 701, or TH A 705.

Advancement to Candidacy

Besides meeting all general requirements, a diagnostic examination on the entire field of drama may be given at the time of registration in order to assist the M.F.A. or M.A. advisor in developing each student’s program. Weaknesses in any area may necessitate enrollment in specified courses selected in order to build strength in the area. Such courses are usually taken in addition to the minimum number of units required for completion of the graduate major.

Completion of the Degree

To complete either the M.F.A. or the M.A., students must satisfy all University and program requirements. University requirements are described in the front of the Graduate Education section of this Bulletin (p. 115). School requirements are provided in detail by the M.F.A./M.A. graduate coordinators and M.F.A./M.A. advisors. In addition to satisfactory completion of the course requirements, the School requires satisfactory performance on yearly School reviews, participation in the School’s production program, and the successful completion of a final creative project or thesis. The School accepts a limited number of transfer units on a course-by-course basis.

Admission to the Program

Applicants must submit the following directly to the graduate coordinator:

1. Statement of purpose (include proposed area and/or areas of emphasis).
2. Copy of transcript.
3. Three letters of reference from people who know the applicant’s theatre work.
4. Information considered important but which does not appear on the transcript.

Theatre Arts (M.A.) – Minimum 30 units

Core Requirements (15 units)

Select 15 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 700</td>
<td>Theatre Research and Writing Practicum</td>
<td>3</td>
</tr>
<tr>
<td>TH A 701</td>
<td>Seminar: Theatrical History and Historiography</td>
<td>3</td>
</tr>
<tr>
<td>TH A 702</td>
<td>Shakespeare: Text and Performance Seminar</td>
<td>3</td>
</tr>
<tr>
<td>TH A 703</td>
<td>Seminar: The American Stage</td>
<td>3</td>
</tr>
<tr>
<td>TH A 704</td>
<td>Seminar: Contemporary Plays and Performance</td>
<td>3</td>
</tr>
<tr>
<td>TH A 705</td>
<td>Playcrafting and Dramaturgy</td>
<td>3</td>
</tr>
<tr>
<td>TH A 709</td>
<td>Seminar: Dramatic Literature and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>TH A 732</td>
<td>Seminar: Topics in Asian Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

Supporting Upper Division/Graduate Courses (9 units)

in related subjects approved by graduate major advisor.

Culminating Experience (6 units)

Select one of the following options:

Option 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 894</td>
<td>Creative Work Project</td>
</tr>
<tr>
<td>&amp; TH A 897</td>
<td>and Research for Thesis and Creative Work Projects in Drama</td>
</tr>
</tbody>
</table>

Option 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 896 &amp; 896EXM</td>
<td>Directed Readings for M.A. Drama Comprehensive Examination and Culminating Experience Examination</td>
</tr>
</tbody>
</table>

Select one elective

Option 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH A 898</td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td>&amp; TH A 897</td>
<td>and Research for Thesis and Creative Work Projects in Drama</td>
</tr>
</tbody>
</table>
Master of Fine Arts in Theatre Arts: Concentration in Design/Technical Production

Graduate Advisors: Arhelger, Roehman, Wilson, Schwartz

Admission
Applications for classified status in the M.F.A. program are accepted beginning October 1st of the preceding year, for admission the following fall.

Contact the department office and the SF State Division of Graduate Studies for specific application deadlines in March for fall and October for spring.

Applicants are required to file the CSU Graduate Admission Application with the SF State Division of Graduate Studies and submit requested materials to the School of Theatre and Dance. Admission to classified status requires acceptance by both the University and the School of Theatre and Dance.

Students must meet university and departmental requirements and must normally have completed an undergraduate major in theatre arts. Consideration is given to students with a strong undergraduate minor or other relevant work. Admission to the program is based on the evaluation of a student's previous work and supporting materials.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One
Evaluation of applicant's statement of purpose, which is a written requirement for admission to classified status in the theatre arts program. On the basis of this material, the M.F.A. or M.A. graduate coordinator may properly advise a student of the need to obtain additional skills in writing. If remedial work is required, it is so indicated as a condition to classified status.

Level Two
Evaluation of the student's written work while enrolled in TH A 700, TH A 701, or TH A 705.

Advancement to Candidacy
Besides meeting all general requirements, a diagnostic examination on the entire field of drama may be given at the time of registration to assist the M.F.A. or M.A. advisor in developing each student's program. Weaknesses in any area may necessitate enrollment in specified courses selected to build strength in the area. Such courses are usually taken in addition to the minimum number of units required for completion of the graduate major.

Completion of the Degree
To complete the M.F.A., students must satisfy all University and program requirements. University requirements are described in the front of the Graduate Education section of this Bulletin (p. 115). School requirements are provided in detail by the M.F.A. graduate coordinators and advisors. In addition to satisfactory completion of the course requirements, the School requires satisfactory performance on yearly School reviews, participation in the School's production program, and the successful completion of a final creative project or thesis. The School accepts a limited number of transfer units on a course-by-course basis.

Admission to the Program
Applicants seeking admission to the M.F.A. in Theatre Arts must submit the following materials directly to the School of Theatre and Dance, M.F.A. Graduate Coordinator, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132-4157:

1. Statement of purpose (include proposed area and/or areas of emphasis).
2. Copy of transcripts from all colleges or universities attended.
3. Three letters of reference from people who know the applicant's theatre work.
4. A current resume.
5. Other information considered appropriate, but which does not appear on transcripts.
6. A portfolio of slides and designs to be submitted upon request to the M.F.A. coordinator.

First Year Evaluation
The School's M.F.A. committee evaluates each student's performance at the end of the first year and recommends for or against continuance in the program.

Theatre Arts (M.F.A.): Concentration in Design/Technical Production — 60 units
Core Requirements (33 units)

| TH A 701 | Seminar: Theatrical History and Historiography | 3 |
| or TH A 702 | Shakespeare: Text and Performance Seminar |
| TH A 705 | Playcrafting and Dramaturgy | 3 |
| TH A 711 | Collaborative Processes in Theatre | 3 |
| TH A 740 | Play Production Concepts | 3 |
| TH A 750 | Design Studio (3 unit course to be taken three times) | 9 |
| TH A 757 | Internship in Theatre | 3 |
| TH A 810 | Advanced Practicum in Theatre (3 unit course to be taken three times) | 9 |

Electives on Advisement (24 units)
Creative Work Project (3 units)

A candidate must demonstrate professional competency in two or more areas of design in a large-scale studio design project that also includes a written component.

| TH A 894 | Creative Work Project | 3 |
The **Master of Arts in Women and Gender Studies** is interdisciplinary, enabling students to combine core and elective courses in Women and Gender Studies with electives in other departments and programs across the campus. The program focuses on women, gender, and feminism in transnational and multicultural contexts, preparing students to engage critically with analytical categories such as gender, race, sexuality, nation, class, labor, and able-bodiedness. Students complete their master’s degree with a culminating project of their own design working closely with an advisor. The degree enables students to pursue advanced study of the history, status, and contributions of women in different contexts, and of the relationships among feminist theories, social/global structures, and the production of gender.

**Career Outlook**

The Bachelor of Arts in Women and Gender Studies is an interdisciplinary liberal arts degree that focuses on women and gender issues in literature, history, sociology, anthropology, cultural, and ethnic studies. The major provides the incentive, knowledge, and skills that prepare students for a variety of graduate programs; and for careers in traditional and alternative social and educational institutions including non-governmental organizations that require expertise in women and gender issues. Some students have used the degree as a foundation for further work in areas such as teaching, counseling, journalism, law, social work, health, administration, advocacy, labor organizing, and community activism.

The Master of Arts in Women and Gender Studies prepares students interested in non-profit and for-profit administration, teaching positions, and the pursuit of doctoral degrees in related fields. It enhances students’ ability to participate in a range of organizations in the public and private sectors, particularly those addressing women and gender issues.

**Professors**

Alamilla Boyd, Hua, Sandell

**Associate Professors**

Cohler, Ray

**Assistant Professors**

Kenney, Savci

**Majors**

- Bachelor of Arts in Women and Gender Studies (p. 1023)

**Minors**

- Minor in Women and Gender Studies (bulletin.sfsu.edu/colleges/liberal-creative-arts/women-gender-study/Minor-Women-Gender-Studies)

**Masters**

- Master of Arts in Women and Gender Studies (p. 1031)

**Bachelor of Arts in Women and Gender Studies**

The major requires at least 39 units, of which 30 must be at the upper division level. Twelve units must be completed in the Women and Gender Studies core courses. Of the 27 elective units, 21 units of electives must
be Women and Gender Studies courses and six units of electives may be
taken in other departments upon advisement.

Women and Gender Studies majors who have successfully completed
WGS 300GW in spring 2010 or thereafter will have satisfied the University
Graduation Writing Assessment Requirement (GWAR).

**Women and Gender Studies (B.A.) — 39 units**

**Core Courses (12 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 200</td>
<td>Introduction to Women and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 300GW</td>
<td>Gender, Race, and Nation - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>WGS 690</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>WGS 698</td>
<td>Work Study in Feminist Projects</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses (27 units)**

Electives in Women and Gender Studies courses (a maximum of
six elective units may be lower–division and six units can be taken
outside the WGS department (in other SF State departments or at other
colleges/universities on issues, topics, or skills based upon academic
interests and goals. Approval by a women and gender studies advisor is
mandatory.)

**Note:** A minimum of 40 upper division units must be completed for
the degree (including upper division units required for the major, general
education, electives, etc.). A student can complete this major yet
not attain the necessary number of upper division units required for
graduation. In this case, additional upper division courses will be needed
to reach the required total.

**Complementary Studies**

Students completing a Bachelor of Arts in Women and Gender Studies
are required to complete twelve units in complementary studies.
Complementary Studies provides students with the opportunity to make
connections across disparate forms of knowledge and inquiry. These
units must come from courses bearing a prefix other than WGS and not
cross-listed with WGS, and may be lower or upper division units, as well
as resident or transfer units. Students who complete two majors or a
major and minor automatically complete the complementary studies
requirement. Otherwise, WGS majors can fulfill this requirement through
one of six pathways:

1. 12 units through the study of a single language and/or literature other
   than English;
2. any 12 units taken in the College of Ethnic Studies;
3. 12 units from partial completion of a minor or certificate;
4. 12 units taken in an approved study abroad program (e.g., CSU Study
   Abroad); or,
5. 12 units from a coherent group of courses approved by a major
   advisor as complementary to the major.

Upon approval of the student’s major advisor, up to six units of
Complementary Studies may be used towards the WGS major (under the
existing “outside coursework” allotment).

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
</tbody>
</table>

**Critical Thinking (LD) 3 A3**

**Writing English Communication II (LD) 3 A4**

**Physical Science (LD) 3 B1**

**Life Science (LD) 3 B2**

**Lab Science (LD) 1 B3**

**Mathematics/ Quantitative Reasoning (LD) 3 B4**

**Arts (LD) 3 C1**

**Arts or Humanities (LD) 3 C1 or C2**

**Humanities: Literature (LD) 3 C3**

**Social Sciences (LD) 3 D1**

**Social Sciences: US History (LD) 3 D2**

**Social Sciences: US & CA Government (LD) 3 D3**

**Lifelong Learning and Self-Development (LLD) (LD or UD) 3 E**

**Physical and/or Life Science (UD) 3 UD-B**

**Arts and/or Humanities (UD) 3 UD-C**

**Social Sciences (UD) 3 UD-D**

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General
Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**Transfer Student Roadmap (2 Years)**

For students with an AA-T in Social Justice Studies. This roadmap opens
in a new tab. (p. 1029)
This degree program is an approved pathway ("similar" major) for students earning the ADT in Social Justice Studies

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Women and Gender Studies Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGS 200</td>
<td>Introduction to Women and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective Courses (27 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGS 300GW</td>
<td>Gender, Race, and Nation - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses (27 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>Elective Courses (27 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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<td></td>
<td>6</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
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<tr>
<td>WGS 698</td>
<td>Work Study in Feminist Projects</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses (27 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
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Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>WGS 690</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses (27 units) – Take Two</td>
<td>6</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>120-122</strong></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. Complementary Studies
   Students completing a Bachelor of Arts in Women and Gender Studies are required to complete twelve units in complementary studies. Complementary Studies provides students with the opportunity to make connections across disparate forms of knowledge and inquiry. These units must come from courses bearing a prefix other than WGS and not cross-listed with WGS, and may be lower or upper division units, as well as resident or transfer units. Students who complete two majors or a major and minor automatically complete the complementary studies requirement. Otherwise, WGS majors can fulfill this requirement through one of six pathways:
   1. 12 units through the study of a single language and/or literature other than English;
   2. any 12 units taken in the College of Ethnic Studies;
   3. 12 units from partial completion of a minor or certificate;
   4. 12 units taken in an approved study abroad program (e.g., CSU Study Abroad); or,
   5. 12 units from a coherent group of courses approved by a major advisor as complementary to the major.
   Upon approval of the student’s major advisor, up to six units of Complementary Studies may be used towards the WGS major (under the existing “outside coursework” allotment).
5. Elective Courses (27 units)
   Electives in Women and Gender Studies courses (a maximum of six elective units may be lower–division and six units can be taken outside the WGS department (in other SF State departments or at other colleges/universities on issues, topics, or skills based upon academic interests and goals. Approval by a women and gender studies advisor is mandatory.)
   Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.
Bachelor of Arts in Women and Gender Studies – SJS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Social Justice Studies. Up to six units in the major (Electives) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGS 150</td>
<td>Women and Gender in U.S. History and Society</td>
<td>3</td>
</tr>
<tr>
<td>WGS 200</td>
<td>Introduction to Women and Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGS 160</td>
<td>Gender, Politics, and Citizenship 3</td>
<td>3</td>
</tr>
<tr>
<td>WGS 300GW</td>
<td>Gender, Race, and Nation - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>WGS 698</td>
<td>Work Study in Feminist Projects</td>
<td>1-6</td>
</tr>
<tr>
<td>Major Elective – Take Two 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
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<tr>
<td>WGS 690</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. WGS 301 or higher.
2. Check Class Schedule for WGS courses that fulfill both major requirements and GE areas UD-C or UD-D.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University–Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE (9 units): Some WGS courses may satisfy both major and UD GE requirements. Check University Bulletin or Class Schedule.
- Students entering the major with the AA-T in Social Justice Studies are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.
Women and Gender Studies Major: 33–39 Units
Up to six units from the SJS ADT may be applied to the Elective Courses area.

- Core courses (12 units) – includes GWAR-designated course.
- Elective courses (21–24 units) – consult with a department advisor about how to apply units from the ADT. A maximum of 6 lower division units can be applied to the major.
- A minimum of 33 units with WGS prefix are required (12 for Core, 21 for Electives).

University Electives: 12 or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Minor in Women and Gender Studies

Women and Gender Studies Minor — 18 units

Required Courses (6 units)

- WGS 200 Introduction to Women and Gender Studies 3
- WGS 300GW Gender, Race, and Nation - GWAR 3

Electives (12 units)

A maximum of three elective units may be lower division for the minor

- Any WGS 500-level 3 unit course 3
- Electives in Women and Gender Studies 6
- Electives outside the department upon advisement 3

Master of Arts in Women and Gender Studies

Admission to Program

In order to be admitted to the program, students must meet all general university requirements. The most competitive candidates will have a minimum of nine to 12 undergraduate WGS or equivalent units with previous work in the feminist study of some or all of the following areas: race, gender, sexuality, colonialism, labor, disability. Students are expected to possess a grade point average of at least 3.0 in the last 60 semester units attempted for the bachelor's degree.

Applicants must provide the department graduate admissions committee with the following items:

1. transcripts of all previous course work;
2. a written statement of background, intentions, and goals, including experience in Women and Gender Studies and with women's issues, rationale for pursuing the M.A., and relation of the M.A. in Women and Gender Studies to prior academic work and to career objectives;
3. two letters of reference from individuals with direct knowledge of the applicant's scholarly ability.

For admission, applications are due February 1.

Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two different levels.

**Level One**
Evaluated on pre-admittance writing sample.

**Level Two**
Evaluated through written portions of the culminating experience of WGS 894, WGS 895, or WGS 898.

Advancement to Candidacy

The Advancement to Candidacy (ATC) is filed after the student has completed a minimum of 12 units, with a cumulative grade point average of 3.0 or better, and not later than the semester before graduating. Once the ATC is approved, the student is advanced to candidacy.

Women and Gender Studies (M.A.) — 30 Units

Core Courses (18 Units)

- WGS 700 Introduction to Graduate Study 3
- WGS 710 Feminist Social Movements 3
- WGS 712 Queer Theories 3
- WGS 713 Intellectual Genealogies 3
- WGS 720 Feminist Pedagogies 3
  or WGS 798 Feminist Internship: Gender and the Nonprofit Industrial Complex 3
- WGS 820 Feminist Research Methods 3

Culminating Experience (3 Units)

Select one of the following on advisement:

- WGS 894 Creative Work Project 3
- WGS 895 Field Study Project 3
- WGS 898 Master's Thesis 3

Related Field Units (9 Units)

(upon approval of graduate advisor)
WORLD MUSIC AND DANCE

College of Liberal & Creative Arts
Dean: Andrew Harris

School of Music
Creative Arts Building, Room 140
(415) 338–1431
Website: music.sfsu.edu (http://music.sfsu.edu)
Director: Cyrus Ginwala
Advisors: Hafez Modirzadeh, Music; Yutian Wong, Dance

Program Scope
The Minor in World Music and Dance provides educational resources for those students interested in global perspectives of music and dance for varying careers as well as for personal enrichment. The subject is interdisciplinary and, in addition to music and dance, includes artistic, historical, geographical, political, humanistic, cultural, and social aspects organized under an overarching core with allowance for focused, in-depth study. Students are introduced to a variety of relevant disciplines, including ethnomusicology and dance ethnology.

Skills in understanding culturally diverse expressions of music and dance increase the graduate's career opportunities in a variety of ways. This minor offers an educational base for many culture-based areas of study, including teaching, multimedia, theater and other arts, business and travel industries, health professions, bilingual and ethnic studies, social and cultural programming, and graduate study. Creative expression is a central focus of the minor.

This minor carries the following general objectives:

• Provide a foundation for knowledge and inquiry into many cultural aspects of music and dance practiced by the world’s peoples.
• Develop critical awareness, appreciation of and participation in the processes of aural tradition, and cultural concepts in relation to the individual and society.
• Encourage creative thinking in the design of cross-cultural as well as cross-disciplinary projects.

Minor in World Music and Dance
The program consists of 18 units. Each student’s course of study is individualized according to his/her particular goals within the minor. Every interested student should see a designated faculty advisor for information, selection, sequencing of courses, as well as for written approval of transfer equivalents and course substitutions. Contact the appropriate faculty member or the Department of Music and Dance office for the faculty’s office hours.

World Music and Dance Minor — 18 units

Core Courses (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 350</td>
<td>Dance Aesthetics: Cultural/Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>MUS 505</td>
<td>Music of the World’s Peoples</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 units)
A minimum of 3 units in Music and 3 units in Dance must be chosen, with the additional 6 units from other related colleges/departments selected in consultation with a World Music and Dance advisor.
BIOLOGY

College of Science and Engineering
Dean: Keith Bowman

Department of Biology
Hensill Hall 534
Phone: (415) 338–1548
Website: biology.sfsu.edu (http://biology.sfsu.edu)

Chair: Michael A. Goldman
Graduate Coordinator: Diana Chu
Graduate advisors:
Cell and Molecular Biology/Microbiology: D. Chu
Ecology, Evolution, and Conservation Biology: A. Zink
Marine Biology: Jonathon Stillman
Physiology and Behavioral Biology: M. Fuse
Biomedical Science: L. Chen

Program Scope
The Department of Biology provides undergraduate and graduate programs covering the breadth of biology. Course work ranges from introductory biology to specialized courses in broad disciplines of biology. The department has grouped courses into concentrations to help advise students of appropriate programs of study in various biology disciplines. Each concentration provides a breadth of background in basic biological concepts as well as depth in the specific discipline. Students should consult with an advisor early in their program of study to design an individualized program within the concentration of interest.

Lists of advisors are available from the department office and website, biology.sfsu.edu (http://biology.sfsu.edu).

Students are responsible for information posted on the department website (biology.sfsu.edu (http://biology.sfsu.edu)) and in a weekly e-mail bulletin, which declared majors receive, as well as for complying with University, college, and department requirements.

Graduate degree programs provide advanced course work, seminar experiences, and require a written thesis or research project. The master's degrees provide substantial educational depth and training, giving the student a sound foundation for employment or study in doctoral programs.

Research Facilities
- State-of-the-Art Greenhouse
- Harry D. Thiers Herbarium
- Genomics and Transcriptions Analysis Center (GTAC)
- Molecular Genetics Laboratory (MGLab), Electron Microscope Facility
- Cell and Molecular Imaging Center (CMIC)
- Romberg Tiburon Center for Environmental Studies
- Sierra Nevada Field Campus
- Moss Landing Marine Laboratories

Collaborative Programs:
Romberg Tiburon Center for Environmental Studies
Opportunities for graduate and undergraduate study in marine biology are enhanced by the Romberg Tiburon Center for Environmental Studies (RTC), SF State's marine and estuarine research and teaching laboratory situated on San Francisco Bay in Marin County. RTC faculty and research scientists offer courses in marine and estuarine sciences, a Masters of Science in Marine Science, and supervise graduate student research and undergraduate independent study projects.

California Academy of Sciences
The Department of Biology and the California Academy of Sciences (CAS) have instituted a program that builds on the complementary strengths of each institution to address the national and international imperative of training biologists in systematics, ecology, and conservation biology. Curators from CAS who have joined the department as research professors contribute to the teaching program, offer seminars and other courses at CAS and supervise graduate student research. The facilities and collections of the Academy are available for selected students pursuing research in the biological sciences.

Career Outlook
This is an exciting time for graduates with degrees in biology. New breakthroughs in understanding living systems are leading to the development of new career opportunities at a rapid rate. In this regard, the undergraduate degrees can open the door to excellent career opportunities in industry, health care, public agencies, secondary school teaching, academia, and many other areas. Many graduates enter careers in the biotechnology industry, in the health professions, and environmental and conservation biology. High-level positions in industry and academia commonly require advanced graduate work. The bachelor of science degrees are designed to give students the training they need to enter doctoral or master's programs in biology and related disciplines. Each year many SF State biology graduates are accepted into doctoral programs across the country. SF State's biology programs also have a strong record of placing students in medical and dental schools.

The San Francisco Bay Area is one of the world's largest centers for the biotechnology industry. The majors in cell and molecular biology and microbiology emphasize the latest cutting edge technologies to provide students with relevant practical skills. Many companies actively recruit SF State students for positions or internships, and SF State graduates are well represented in many prominent biotechnology companies. Employment opportunities vary from manufacturing to technical research support to biotechnology and pharmaceuticals research management.

Graduates of the M.S. in Biomedical Science program, with advanced interdisciplinary science education, internship experience, and workplace skills training tend to be employed in biomedical institutes, biotechnology industries, business corporations, government and non-profit organizations or continue to other advanced degrees. The long term career outlook for professional science master's graduates is excellent.

Professors
Bayliss, Boyer, Brecskler, Burrey, Carpenter, L. Chen, Chu, Cohen, Connor, Desjardins, Domingo, Goldman, Haefinik, He, LeBuhn, Marquez-Magana, Parker, Patterson, Ramirez, Romeo, Rothman, Routman, Spencer, Stillman, Tanner

Associate Professors
J. Chen, Crow-Sanchez, de la Torre, Denetclaw, Fuse, Moffatt, Pasion, Sehgal, Vredenburg, Weinstein

Assistant Professors
Chan, Pennings, Riggs, Roy, Swei, Zink, Simonin

San Francisco State University Bulletin 2017-2018
Research Associate Professor
Cipriano

California Academy of Sciences Research Professors
Alemseged, Almeda, Bennett, Blackburn, Burke, Daniel, Drewes, Dumbacher, Fisher, Fritsch, Gosliner, Griswold, Kavanaugh, McCosker, Mooi, Rocha, Roopnarine, Simison, Steiner, Van Syoc, G. Williams

Romberg Tiburon Center Research Professors
Cochlan, Dugdale, Kimmerer, Wilkerson

Majors
- Bachelor of Arts in Biology, General (p. 1034)
- Bachelor of Science in Biology: Concentration in Botany (p. 1043)
- Bachelor of Science in Biology: Concentration in Cell and Molecular Biology (p. 1050)
- Bachelor of Science in Biology: Concentration in Ecology (p. 1058)
- Bachelor of Science in Biology: Concentration in Marine Biology and Limnology (p. 1066)
- Bachelor of Science in Biology: Concentration in Microbiology (p. 1074)
- Bachelor of Science in Biology: Concentration in Physiology (p. 1082)
- Bachelor of Science in Biology: Concentration in Zoology (p. 1091)

Minor
- Minor in General Biology (p. 1099)

Certificate
- Certificate in Biotechnology (p. 1099)

Masters
- Master of Science in Biology: Concentration in Cell and Molecular Biology (p. 1100)
- Master of Science in Biology: Concentration in Ecology, Evolution, and Conservation Biology (p. 1101)
- Master of Science in Biology: Concentration in Marine Biology (p. 1102)
- Master of Science in Biology: Concentration in Microbiology (p. 1102)
- Master of Science in Biology: Concentration in Physiology and Behavioral Biology (p. 1103)
- Master of Science in Biomedical Science: Concentration in Biotechnology (p. 1104)
- Master of Science in Biomedical Science: Concentration in Stem Cell Science (p. 1104)

Certificate
- Certificate in Genetic Engineering (p. 1099)

Bachelor of Arts in General Biology

Impaction
All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements
- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C- or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)
(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,
- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.
- General Biology majors may take any BIOL GWAR class.
See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

**Bachelor of Arts in Biology, General**

The curriculum in general biology provides students with exposure to a broad spectrum of biological sciences including genetics, cell biology, physiology, ecology, organismal and evolutionary biology. Since basic principles of physical science are central to many biological concepts, course work in physics and chemistry is included in the lower division requirements. The B.A. program is suited for students preparing for professional schools, including teacher credentialing programs, or careers that require students to be versed in diverse areas of biology.

Students preparing to become teachers should note that additional science preparation beyond the major is required (geosciences breadth: meteorology, astronomy, geology, and oceanography). It is important to consult early and often with a credential advisor in the biology department to plan the major and keep abreast of any state mandated changes in requirements.

**General Education Met in the Major**

General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:
The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD-B) is satisfied upon completion of BIOL 355.

**General Biology (B.A.) – 57 units**

**Lower Division Requirements (32–33 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts (CHEM 216 is recommended)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Upper Division Requirements (24–25 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics or MATH 226 Calculus I</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 112</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 122</td>
<td>General Physics II Laboratory</td>
<td>1</td>
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**Select one physiology course from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 442</td>
<td>Microbial Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 612</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 630</td>
<td>Animal Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one cell biology course from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 358</td>
<td>Forensic Genetics: Math Matters</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 401</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 435</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 453</td>
<td>General Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one physiology or cell biology laboratory course associated with course selected from above**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 482</td>
<td>Ecology</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOL 490</td>
<td>Ecology of Infectious Diseases</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOL 529GW</td>
<td>Plant Ecology - GWAR</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 532</td>
<td>Restoration Ecology</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Wetland Ecology</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 580</td>
<td>Limnology</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 582</td>
<td>Biological Oceanography</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 585</td>
<td>Marine Ecology</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 586</td>
<td>Marine Ecology Laboratory</td>
<td>3-5</td>
</tr>
</tbody>
</table>

**Select one evolutionary or organismal biology course from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 328</td>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 380</td>
<td>Evolutionary Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 425</td>
<td>Emerging Diseases</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 453</td>
<td>General Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 454</td>
<td>Parasitology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 460</td>
<td>General Entomology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 461</td>
<td>Insect Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 475GW</td>
<td>Herpetology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 478GW</td>
<td>Ornithology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 500</td>
<td>Evolution and Diversity of Plants</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 502</td>
<td>Biology of the Algae</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 504</td>
<td>Biology of the Fungi</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 505</td>
<td>Comparative Anatomy of Vascular Plants</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 514</td>
<td>Plant Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 555</td>
<td>Marine Invertebrate Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 570GW</td>
<td>Biology of Fishes - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 638</td>
<td>Bioinformatics &amp; Genome Annotation</td>
<td>3</td>
</tr>
</tbody>
</table>
Upper Division Electives
Select four to eight units in consultation with an advisor from among all upper division Biology courses. Only one of the following courses can be included among those selected: BIOL 313, BIOL 317, BIOL 318, BIOL 327, BIOL 330, and BIOL 349. Up to three units of BIOL 699 can also be used towards the total of four to eight units.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies
Students in the B.A. biology program will satisfy the Complementary Studies Requirement with the completion of courses in chemistry, physics, and mathematics that are required for the major.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifelong Learning</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>and Self-Development</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(LLD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>(AERM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>(ES)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global Perspectives</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>(GP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Justice</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>(SJ)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1038)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1041)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Biology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.
Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken.

Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in General Biology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 57

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 124 or MATH 226</td>
<td>Elementary Statistics or Calculus I</td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14-15</td>
</tr>
</tbody>
</table>

| **Second Semester**  |                                                     |       |
| BIOL 230             | Introductory Biology I                              | 5     |
| PHYS 111 & PHYS 112  | General Physics I and General Physics I Laboratory  | 4     |
| GE Area A: Oral Communication (A1) or Critical Thinking (A3) | 3     |
| GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II | 3     |
| **Units**            |                                                     | 15    |

| **Third Semester**   |                                                     |       |
| BIOL 240             | Introductory Biology II                             | 5     |
| CHEM 215             | General Chemistry II: Quantitative Applications of Chemistry Concepts | 3     |
| GE Area C: Arts (C1) or Humanities (C2) | 3     |
| GE Area D: U.S. History (D2) or U.S. and California Government (D3) | 3     |
| **Units**            |                                                     | 14    |

| **Fourth Semester**  |                                                     |       |
| CHEM 130             | General Organic Chemistry                           | 3     |
| PHYS 121 & PHYS 122  | General Physics II and General Physics II Laboratory | 4     |
| GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective | 3     |
| GE Area D: Social Sciences (D1) | 3     |
| GE Area D: U.S. History (D2) or U.S. and California Government (D3) | 3     |
| **Units**            |                                                     | 16    |

| **Fifth Semester**   |                                                     |       |
| BIOL 355             | Genetics                                            | 3     |
| Ecology Course – Select One  | 3     |
| Laboratory Course Associated with a Course in the Physiology or Cell Biology Course – Select One  | 2-4   |
| GE Area C: Arts (C1) | 3     |
| GE Area C: Humanities: Literature (C3) | 3     |
| **Units**            |                                                     | 14-18 |

| **Sixth Semester**   |                                                     |       |
| Cell Biology Course – Select One | 3     |
| Evolutionary or Organismal Biology Course – Select One | 3-5   |
| GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | 3     |
| SF State Studies or University Elective – Take Two | 6     |
| **Units**            |                                                     | 16    |
Seventh Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiology Course – Select One</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Major Electives – Select 4-8 Units in Consultation with an Advisor</td>
<td>4</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

Eighth Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Major Electives</td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if already satisfied</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Four</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>120-125</td>
</tr>
</tbody>
</table>

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3 **Ecology Courses**
   - BIOL 482 Ecology (4 units)
   - BIOL 490 Ecology of Infectious Diseases (4 units)
   - BIOL 529GW Plant Ecology - GWAR (4 units)
   - BIOL 532 Restoration Ecology (3 units)
   - BIOL 534 Wetland Ecology (4 units)
   - BIOL 580 Limnology (3 units)
   - BIOL 582 Biological Oceanography (4 units)
   - BIOL 585 Marine Ecology (3 units)
   - BIOL 586 Marine Ecology Laboratory (2 units)
4 **Cell Biology Courses**
   - BIOL 350 Cell Biology (3 units)
   - BIOL 358 Forensic Genetics: Math Matters (4 units)
   - BIOL 401 General Microbiology (3 units)
   - BIOL 435 Immunology (3 units)
   - BIOL 453 General Parasitology (3 units)
   - CHEM 349 General Biochemistry (3 units)
5 **Physiology Courses**
   - BIOL 442 Microbial Physiology (3 units)
   - BIOL 525 Plant Physiology (3 units)
   - BIOL 612 Human Physiology (3 units)
   - BIOL 630 Animal Physiology (3 units)
Evolutionary or Organismal Biology Courses
- BIOL 328 Human Anatomy (4 units)
- BIOL 337 Evolution (3 units)
- BIOL 380 Evolutionary Developmental Biology (3 units)
- BIOL 425 Emerging Diseases (3 units)
- BIOL 453 General Parasitology (3 units)
- BIOL 454 Parasitology Laboratory (1 unit)
- BIOL 460 General Entomology (4 units)
- BIOL 461 Insect Taxonomy (4 units)
- BIOL 475GW Herpetology - GWAR (3 units)
- BIOL 478GW Ornithology - GWAR (4 units)
- BIOL 500 Evolution and Diversity of Plants (4 units)
- BIOL 502 Biology of the Algae (3 units)
- BIOL 504 Biology of the Fungi (4 units)
- BIOL 505 Comparative Anatomy of Vascular Plants (4 units)
- BIOL 514 Plant Taxonomy (5 units)
- BIOL 555 Marine Invertebrate Zoology (4 units)
- BIOL 570GW Biology of Fishes - GWAR (4 units)
- BIOL 638 Bioinformatics & Genome Annotation (4 units)
- BIOL 652 Science Education Partners in Biology (4 units)

Substitutions allowed upon signed advisor consent.
# Bachelor of Arts in Biology – BIOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226; required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Select Any BIOL GWAR Course</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>or University Elective if A4 met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Select Physiology Course – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Select Physiology Lab OR Upper Division Elective</td>
<td></td>
<td>2-3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Select Cell Biology Course – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Select Cell Biology Lab OR Upper Division Elective</td>
<td></td>
<td>2-4</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Select Ecology Course</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>1-4</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Major Upper Division Requirement – Evolutionary or Organismal Biology Course</td>
<td></td>
<td>3-5</td>
</tr>
<tr>
<td>Major Upper Division Elective</td>
<td></td>
<td>2-4</td>
</tr>
<tr>
<td>University Elective or UD-C or UD-D if needed</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>3-7</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. If ENG 214 equivalent not taken before transfer, take GWAR course in a subsequent semester. Biology B.A. students may take any BIOL GWAR course; view all BIOL GWAR course options at http://biology.sfsu.edu/content/gwar
2. Some UD-C courses also satisfy US History - check Class Schedule
3. BIOL 355 satisfies UD GE (B)
4. Take either a physiology lab or a cell biology lab concurrently with its associated lecture course (2-4 units)
5. Select course in consultation with an advisor

## To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 12–21 Units**
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): See bullet.
- Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
- Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
- B.A. Biology students satisfy Complementary Studies by taking courses in chemistry, physics and mathematics that are required for the major.

**General Biology Major: 24–33 Units**

BIOL 230/BIOL 240, MATH 226, all PHYS, CHEM 115/CHEM 215/CHEM 216 met in transfer.

- Lower Division requirements (3 units): CHEM 130
- Major Upper Division Requirements/GWAR (17–22 units)
- Major Upper Division Electives (4–8 units)

**University Electives: Four or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.

<table>
<thead>
<tr>
<th>Major Upper Division requirement – Select Physiology Course</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 442 Microbial Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 525 Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 612 Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 630 Animal Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Upper Division requirement – Select Cell Biology Course</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350 Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 401 General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 435 Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 453 General Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 349 General Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Biology: Concentration in Botany

Impaction
All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements
- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C− or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)
(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,
- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.
- General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Botany
The program provides opportunities for study in ecological, systematic and taxonomic, physiological, morphological, anatomical, molecular, and genetic aspects of botany. Course work in an array of groups is offered, including vascular plants, algae, fungi, mosses, and lichens. Where applicable, fieldwork in courses is emphasized, including instruction at the Sierra Nevada Field Campus and the Romberg Tiburon Center.

Biology (B.S.): Concentration in Botany – 67 units

General Education Met in the Major
General Education requirements met in the Biology major (all concentrations) or Undeclared with interest in Biology:
The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD−B) is satisfied upon completion of BIOL 355.

Lower Division Requirements (34−35 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130 or CHEM 233</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Select 16−17 units from the following:</td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td></td>
</tr>
</tbody>
</table>
PHYS 112 General Physics I Laboratory
PHYS 121 General Physics II
PHYS 122 General Physics II Laboratory

**Upper Division Requirements (32–33 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 526</td>
<td>Plant Molecular Physiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 529 GW</td>
<td>Plant Ecology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 530</td>
<td>Plant Molecular Ecology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 500</td>
<td>Evolution and Diversity of Plants</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 505</td>
<td>Comparative Anatomy of Vascular Plants</td>
<td>4</td>
</tr>
</tbody>
</table>

Select 3–5 units from the following: 3-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 502</td>
<td>Biology of the Algae</td>
</tr>
<tr>
<td>BIOL 504</td>
<td>Biology of the Fungi</td>
</tr>
<tr>
<td>BIOL 514</td>
<td>Plant Taxonomy</td>
</tr>
</tbody>
</table>

**Electives**

Choose 4–7 units upon advisement from the alternates not used in fulfilling the requirements listed above or any other upper division biology courses not specifically excluded for major credit, or any graduate course in biology.

**Note:** A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking Communication</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>

**Social Sciences:**
- UD 3 D3
- LD or UD 3 E

**LD or UD**
- Government

**Physical and/or Life Science**
- UD 3 UD-B
- Arts and/or Humanities
- UD 3 UD-C
- Social Sciences
- UD 3 UD-D

**SF State Studies**
- Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM)
- Environmental Sustainability (ES)
- Global Perspectives (GP)
- Social Justice (SJ)

**Note:** LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 year)**

This roadmap opens in a new tab. (p. 1046)

**Transfer Student Roadmap (2 year)**

For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1048)

**This degree program is an approved pathway (“similar” major) for students earning the ADT in Biology**

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units
if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on a specific ADT;
- Which lower-division requirements are considered complete upon entry based on a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Biology: Concentration in Botany Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 67

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>Select Major Lower Division Requirement (16-17 Units Total) 3</td>
<td></td>
<td>4.5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry 4 or Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 233</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select Major Lower Division Requirement (16-17 Units Total) 3</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II 5</td>
<td>5</td>
</tr>
<tr>
<td>Select Major Lower Division Requirement (16-17 Units Total) 3</td>
<td></td>
<td>4.5</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics 6</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3-5</td>
</tr>
<tr>
<td>BIOL 502</td>
<td>Biology of the Algae</td>
<td></td>
</tr>
<tr>
<td>BIOL 504</td>
<td>Biology of the Fungi</td>
<td></td>
</tr>
<tr>
<td>BIOL 514</td>
<td>Plant Taxonomy</td>
<td></td>
</tr>
<tr>
<td>Select Major Lower Division Requirement (16-17 Units Total) 3</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>GE Area UD~D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17-19</td>
</tr>
</tbody>
</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 500 or BIOL 505</td>
<td>Evolution and Diversity of Plants or Comparative Anatomy of Vascular Plants</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 529GW or BIOL 534</td>
<td>Plant Ecology - GWAR or Wetland Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Major Upper Division Major Electives 4-7 units in consultation with advisor</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Units**: 15

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 525 &amp; BIOL 526</td>
<td>Plant Physiology and Plant Molecular Physiology Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>Major Upper Division Major Electives 4-7 units in consultation with advisor</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Units**: 14-15

**Total Units**: 120-125

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Major Lower Division Requirement**
   - CHEM 215 General Chemistry II: Quantitative Applications of Chemistry Concepts (3 units)
   - CHEM 216 General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts (2 units)
   - MATH 226 Calculus I (4 units)
   - MATH 227 Calculus II (4 units)
   - PHYS 111 General Physics I (3 units)
   - PHYS 112 General Physics I Laboratory (1 units)
   - PHYS 121 General Physics II (3 units)
   - PHYS 122 General Physics II Laboratory (1 units)
4. Area B1: Physical Science is satisfied upon completion of CHEM 130 or CHEM 233.
5. Areas B2: Life Science and B3: Laboratory Science are satisfied upon completion of BIOL 240.
6. GE Area UD–B: Upper Division Physical and/or Life Sciences is satisfied upon completion of BIOL 355.
Bachelor of Science in Biology: Concentration in Botany – BIOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 529GW</td>
<td>Plant Ecology - GWAR 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 met in transfer 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74) 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics 3</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 504</td>
<td>Biology of the Fungi</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 526</td>
<td>Plant Molecular Physiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
</tr>
<tr>
<td>BIOL 500 or BIOL 505</td>
<td>Evolution and Diversity of Plants or Comparative Anatomy of Vascular Plants</td>
<td>4</td>
</tr>
<tr>
<td>Major Upper Division Electives 4</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>University Elective or UD-C or UD-D if needed</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

1 If ENG 214 equivalent not taken before transfer, GWAR course must be taken in a subsequent semester; this may impact timely progress to degree.
2 Some GE Area UD-C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule.
3 BIOL 355 satisfies GE Area UD-B: Upper Division Physical and/or Life Sciences.
4 Select upper division electives in consultation with an advisor.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 12–21 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
• American Institutions (0–6 units): See next bullet.
• Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
• Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
• Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Biology – Botany Major: 37 Units**

Completed: BIOL 230/BIOL 240, MATH 226, all PHYS, and CHEM 115/CHEM 215/CHEM 216.

• Lower Division requirements (3 units): CHEM 130
• Major Upper Division Requirements/GWAR (27 units)
• Major Upper Division Electives (7 units) – see note 4.

**University Electives: Two or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Bachelor of Science in Biology: Concentration in Cell and Molecular Biology

Impaction

All Biology concentrations are impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University's Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements

• Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
• All major course work must be completed with letter grades (CR/NC is not acceptable).
• A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
• To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C- or better.
• At least 12 units in biology must be completed at SF State.
• Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)

(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,
• Cell & Molecular Biology majors should take BIOL 351GW;
• Microbiology majors should take BIOL 402GW;
• Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
• Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
• Physiology majors may choose between BIOL 613GW or BIOL 631GW.

• General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Cell and Molecular Biology

Fundamental coursework in allied sciences and mathematics prepares the student for advanced studies in cell and molecular biology. The program is also recommended for pre-medical students because it includes many of the courses required for admission to medical school. (For more information, see Pre-health Professions. (p. 400))

Biology (B.S.): Concentration in Cell and Molecular Biology – Minimum 68 units

General Education Met in the Major

General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:
The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

• Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
• Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
• Upper Division General Education, Physical, and Life Sciences (UD–B) is satisfied upon completion of BIOL 355.

Lower Division Requirements (38–39 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>&amp; CHEM 216</td>
<td>General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 122</td>
<td>and General Physics II Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>
Select one of the following: 3-4
- MATH 227 Calculus II 1
- CSC 210 Introduction to Computer Programming
- BIOL 358 Forensic Genetics: Math Matters
- BIOL 458 Biometry

Upper Division Requirements (30 units)
- BIOL 350 Cell Biology 3
- BIOL 351GW Experiments in Cell and Molecular Biology - GWAR 4
- BIOL 355 Genetics 3
- BIOL 357 Molecular Genetics 3
- CHEM 335 Organic Chemistry II 3
- CHEM 349 General Biochemistry 2 3

Electives
Choose 11 units upon advisement. At least one elective course must have an upper division laboratory component. Graduate level courses may be used upon advisement.
- BIOL 337 Evolution 3
- BIOL 356 Honors Genetics 2
- BIOL 380 Evolutionary Developmental Biology 3
- BIOL 382 Developmental Biology 3
- BIOL 401 General Microbiology 3
- BIOL 420 General Virology 3
- BIOL 425 Emerging Diseases 3
- BIOL 435 Immunology 3
- BIOL 446 Microbial Genomics 4
- BIOL 525 Plant Physiology 3
- BIOL 630 Animal Physiology 3
- BIOL 638 Bioinformatics & Genome Annotation 4
- BIOL 640 Cellular Neurosciences 3
- BIOL 699 Independent Study in Biology 3
- CHEM 343 Biochemistry I Laboratory 3

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

1 Students who plan to study for a Ph.D. should complete at least two semesters of calculus and one semester of physical chemistry.
2 Students may take CHEM 340 and CHEM 341 in lieu of CHEM 349 upon advisement

General Education Requirements
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
</tbody>
</table>

Physical Science  LD  3  B1
Life Science     LD  3  B2
Lab Science      LD  1  B3
Mathematics/
Quantitative Reasoning       LD  3  B4
Arts            LD  3  C1
Arts or
Humanities     LD  3  C1 or C2
Humanities:
Literature     LD  3  C3
Social Sciences LD  3  D1
Social Sciences: US History LD  3  D2
Social Sciences: US & CA Government LD  3  D3
Lifelong Learning (LLD) LD or UD  3  E
Physical and/or Life Science UD  3  UD-B
Arts and/or
Humanities     UD  3  UD-C
Social Sciences UD  3  UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
- American Ethnic and Racial Minorities (AERM) LD or UD  3
- Environmental Sustainability (ES) LD or UD  3
- Global Perspectives (GP) LD or UD  3
- Social Justice (SJ) LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1054)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1056)
This degree program is an approved pathway ("similar" major) for students earning the ADT in Biology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Biology: Concentration in Cell and Molecular Biology Roadmap

120 Total Units Required
Minimum Number of Units in Major: 68

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>(A1) or Critical Thinking (A3)</td>
<td>and General Physics I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>Communication (A2)</td>
<td>and General Physics I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication II (A4)</td>
<td>Quantitative Applications of Chemistry Concepts</td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>(A1) or Critical Thinking (A3)</td>
<td>and General Physics I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English</td>
<td>General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>Communication (A2)</td>
<td>and General Physics I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication II (A4)</td>
<td>Quantitative Applications of Chemistry Concepts</td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
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<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 358</td>
<td>Forensic Genetics: Math Matters</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2)</td>
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<tr>
<td>or U.S. and California</td>
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<td></td>
</tr>
<tr>
<td>Government (D3)</td>
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<td></td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 121 &amp; PHYS 122</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2)</td>
<td>and General Physics II Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or U.S. and California</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government (D3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Literature (C3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>(D1)</td>
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<td></td>
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<tr>
<td>SF State Studies or University</td>
<td></td>
<td>3</td>
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<tr>
<td>elective</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
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1054
Sixth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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</table>

Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 351GW</td>
<td>Experiments in Cell and Molecular Biology - GWAR</td>
<td>4</td>
</tr>
</tbody>
</table>

Select Major Electives Requirement (11 Units Total) – Take Two ³

SF State Studies or University Elective

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-16</td>
</tr>
</tbody>
</table>

Eighth Semester

Select Major Electives Requirement (11 Units Total) ³

SF State Studies or University Elective – Take Three

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-15</td>
</tr>
</tbody>
</table>

Total Units 120-124

---

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3 Major Electives

Chose 11 units upon advisement. At least one elective course must have an upper division laboratory component. Graduate level courses may be used upon advisement.

- BIOL 337 Evolution (3 units)
- BIOL 356 Honors Genetics (2 units)
- BIOL 380 Evolutionary Developmental Biology (3 units)
- BIOL 382 Developmental Biology (3 units)
- BIOL 401 General Microbiology (3 units)
- BIOL 420 General Virology (3 units)
- BIOL 425 Emerging Diseases (3 units)
- BIOL 435 Immunology (3 units)
- BIOL 446 Microbial Genomics (4 units)
- BIOL 525 Plant Physiology (3 units)
- BIOL 630 Animal Physiology (3 units)
- BIOL 638 Bioinformatics & Genome Annotation (4 units)
- BIOL 640 Cellular Neurosciences (3 units)
- BIOL 699 Independent Study in Biology (1-3 units)
- CHEM 343 Biochemistry I Laboratory (3 units)
Bachelor of Science in Biology: Concentration in Cell and Molecular Biology – BIOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 227</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 met in transfer</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>BIOL 351GW</td>
<td>Experiments in Cell and Molecular Biology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td>1-2</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td>14</td>
<td></td>
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<tr>
<td>Major Upper Division Electives (^3)</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>University Elective or UD-C or UD-D if needed</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

1 Some GE Area UD–C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule
2 BIOL 355 satisfies GE Area UD–B: Upper Division Physical and/or Life Sciences.
3 Select upper division electives in consultation with an advisor. At least one elective course must have an upper division lab component.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 12–21 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History requirement if not completed prior to transfer
Biology – Cell and Molecular Biology Major: 37 Units

Completed: BIOL 230/BIOL 240, MATH 226, all PHYS, and CHEM 115/CHEM 215/CHEM 216.

- Lower Division requirements (7 units): CHEM 233; CSC 210 or MATH 227.
- Major Upper Division Requirements/GWAR (19 units)
- Major Upper Division Electives (11 units) – upon advisement; includes lab component. See note 4 above.

University Electives: Two or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Bachelor of Science in Biology: Concentration in Ecology

Impaction

All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements

- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C− or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)

(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,

- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.
- General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Ecology

This program offers a flexible but rigorous plan of study in the plant and animal sciences for students interested in ecology, natural history, conservation, and population biology; students interested in entomology, botany, or zoology may also find this concentration appropriate. The program stresses firm foundations in ecological theory, ecological technique, and natural history.

Biology (B.S.): Concentration in Ecology — 67 units

General Education Met in the Major

General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD−B) is satisfied upon completion of BIOL 355.

Lower Division Requirements (34–35 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 16-17 units from the following:</td>
<td></td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 216</td>
<td>and General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Upper Division Requirements (32–33 units)

BIOL 337  Evolution  3
BIOL 355  Genetics  3
BIOL 458  Biometry  4
BIOL 525  Plant Physiology (select on advisment)  3
or BIOL 630  Animal Physiology  3
Select 6–8 units on advisement from the following:  6–8
BIOL 482  Ecology  
BIOL 490  Ecology of Infectious Diseases  
BIOL 529GW  Plant Ecology - GWAR  
BIOL 530  Conservation Biology  
BIOL 532  Restoration Ecology  
BIOL 534  Wetland Ecology  
BIOL 577  Ecological and Environmental Modeling  
BIOL 580  Limnology  
BIOL 582  Biological Oceanography  
BIOL 584  Marine Ecology  
BIOL 586  Marine Ecology Laboratory  

Electives

Select 11–14 units upon advisement from the alternates not used in fulfilling the requirements listed above, or any other upper division biology courses not specifically excluded for major credit, or any graduate course in biology.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
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<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
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<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
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<td>Humanities: Literature</td>
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<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
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</tr>
<tr>
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<td>D2</td>
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<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
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</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)

Environmental Sustainability (ES)

Global Perspectives (GP)

Social Justice (SJ)

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 year)

This roadmap opens in a new tab. (p. 1062)

Transfer Student Roadmap (2 year)

For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1064)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Biology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.
Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units.
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring
semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Biology: Concentration in Ecology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 67

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td><strong>Lower Division Requirement (16-17 Units) – Take One</strong></td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>3</td>
</tr>
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<td>GE Area A: Written English Communication (A2)</td>
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</tr>
<tr>
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<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
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<tr>
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<td></td>
<td>4-5</td>
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<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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</tr>
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<td>GE Area A: Written English Communication II (A4)</td>
<td>or Written English Communication (A2) Stretch II</td>
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<tr>
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<tr>
<td>BIOL 240</td>
<td>Introductory Biology II 4</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or SF State Studies or University Elective</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry 6</td>
<td>3</td>
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<td><strong>Lower Division Requirement (16-17 Units) – Take One</strong></td>
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<td>4-5</td>
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<td>GE Area C: Arts (C1)</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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<tr>
<td>BIOL 355</td>
<td>Genetics 6</td>
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<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td>GE Area D: Social Sciences (D1)</td>
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<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 525 or BIOL 630</td>
<td>Plant Physiology or Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Major Upper Division Electives (11–14 Units Total)</strong></td>
<td></td>
<td>2-4</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<td>3</td>
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<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14-16</td>
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<tr>
<td><strong>Seventh Semester</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Major Upper Division Requirement (6–8 Units Total)</strong></td>
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<tr>
<td><strong>Major Upper Division Electives (11–14 Units Total)</strong></td>
<td></td>
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<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>---------------------------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>Eighth Semester</td>
<td>15</td>
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<tr>
<td>Select Major Upper Division Requirement (6–8 Units Total) 8</td>
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<tr>
<td>Major Upper Division Electives (11–14 Units Total) 7</td>
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<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td><strong>120-130</strong></td>
<td></td>
</tr>
</tbody>
</table>

1. **Major Lower Division Requirement**
   - CHEM 215 General Chemistry II: Quantitative Applications of Chemistry Concepts (3 units)
   - & CHEM 216 General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts (2 units)
   - MATH 226 Calculus I (4 units)
   - MATH 227 Calculus II (4 units)
   - PHYS 111 General Physics I (3 units)
   - & PHYS 112 General Physics I Laboratory (1 unit)
   - PHYS 121 General Physics II (3 units)
   - & PHYS 122 General Physics II Laboratory (1 unit)

2. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

3. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

4. Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.

5. Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.

6. Upper Division General Education, Physical, and Life Sciences (UD-B) is satisfied upon completion of BIOL 355.

7. **Major Upper Division Electives**
   - Select 11-14 units upon advisement from the alternates not used in fulfilling the requirements listed above, or any other upper division biology courses not specifically excluded for major credit, or any graduate course in biology.

8. **Major Upper Division Requirement**
   - Select 6-8 units on advisement from the following:
     - BIOL 482 Ecology (4 units)
     - BIOL 490 Ecology of Infectious Diseases (4 units)
     - BIOL 529GW Plant Ecology - GWAR (4 units)
     - BIOL 530 Conservation Biology (3 units)
     - BIOL 532 Restoration Ecology (3 units)
     - BIOL 534 Wetland Ecology (4 units)
     - BIOL 577 Ecological and Environmental Modeling (4 units)
     - BIOL 580 Limnology (3 units)
     - BIOL 582 Biological Oceanography (4 units)
     - BIOL 585 Marine Ecology (3 units)
     - BIOL 586 Marine Ecology Laboratory (2 units)
Bachelor of Science in Biology: Concentration in Ecology – BIOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>First Semester</td>
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<tr>
<td>BIOL 529GW</td>
<td>Plant Ecology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>Take University Elective if requirement met in transfer ¹</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Second Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics ²</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>Upper Division GE: UD-C or UD-D</td>
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<tr>
<td>University Elective</td>
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<td></td>
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<td>14</td>
</tr>
<tr>
<td>Third Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology or Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 630</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Division Requirement – upon advisement (Ecology option) ³</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Elective ³</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>16</td>
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<tr>
<td>Fourth Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Division Electives ³</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>University Electives (or UD-C or UD-D if needed)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1 If ENG 214 equivalent not taken before transfer, GWAR course must be taken in a subsequent semester. Timely progress to degree will be affected.
2 BIOL 355 also satisfies GE Area UD–B: Upper Division Physical and/or Life Sciences.
3 Select course in consultation with an advisor.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 12–21 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): See next bullet.
- Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
• Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
• Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Biology – Ecology Major: 38 Units**
Completed: BIOL 230/BIOL 240, MATH 226, all PHYS, and CHEM 115/CHEM 215/CHEM 216.

• Lower Division requirements (3 units): CHEM 130
• Major Upper Division Requirements/GWAR (21 units)
• Major Upper Division Electives (14 units) – upon advisement. See note 2.

**University Electives: Three or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g., in both UD GE and the major.
Bachelor of Science in Biology: Concentration in Marine Biology and Limnology

Impaction
All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements

- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C– or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)

(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,

- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.

- General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Marine Biology and Limnology

Undergraduates may elect a general emphasis in marine invertebrate zoology, marine vertebrate zoology, marine botany, marine microbiology, or limnology. Graduate work may also be general or follow specific strengths such as ecology, evolution and systematics, functional morphology, physiology, behavior, estuarine or freshwater biology.

Biology (B.S.): Concentration in Marine Biology and Limnology — 66–68 units

General Education Met in the Major

General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD–B) is satisfied upon completion of BIOL 355.

Lower Division Requirements (34–35 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Select 16-17 units from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
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</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I and General Physics I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

1066
**Bachelor of Science in Biology: Concentration in Marine Biology and Limnology**

**Upper Division Requirements (32–33 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
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<tr>
<td>BIOL 355</td>
<td>Genetics</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology (select on advisement) or BIOL 630</td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Wetland Ecology</td>
</tr>
<tr>
<td>BIOL 580</td>
<td>Limnology</td>
</tr>
<tr>
<td>BIOL 582</td>
<td>Biological Oceanography</td>
</tr>
<tr>
<td>BIOL 585 &amp; BIOL 586</td>
<td>Marine Ecology and Marine Ecology Laboratory</td>
</tr>
</tbody>
</table>

**Upper Division Electives**

Select 14–17 upper division units from alternatives not used in fulfilling the requirements listed above or from the list below. Upon advisement, students may also use other upper division biology courses or appropriate graduate courses as electives.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 502</td>
<td>Biology of the Algae</td>
</tr>
<tr>
<td>BIOL 526</td>
<td>Plant Molecular Physiology Laboratory</td>
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<tr>
<td>BIOL 532</td>
<td>Restoration Ecology</td>
</tr>
<tr>
<td>BIOL 555</td>
<td>Marine Invertebrate Zoology</td>
</tr>
<tr>
<td>BIOL 556</td>
<td>Natural History of Marine Invertebrates</td>
</tr>
<tr>
<td>BIOL 570GW</td>
<td>Biology of Fishes - GWAR</td>
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<tr>
<td>BIOL 575</td>
<td>Fisheries Biology</td>
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<tr>
<td>BIOL 584</td>
<td>Marine Microbial Ecology Laboratory</td>
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<tr>
<td>BIOL 585</td>
<td>Marine Ecology</td>
</tr>
<tr>
<td>BIOL 586</td>
<td>Marine Ecology Laboratory</td>
</tr>
<tr>
<td>BIOL 631GW</td>
<td>Animal Physiology Laboratory - GWAR</td>
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<tr>
<td>CHEM 680</td>
<td>Chemical Oceanography</td>
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<tr>
<td>ERTH 642</td>
<td>Watershed Assessment and Restoration</td>
</tr>
<tr>
<td>ERTH 434</td>
<td>Coastal Processes</td>
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</table>

Any Marine Science Course between MSCI 312 and MSCI 344 without duplicating courses taken at SF State

**Note:** A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<td>Written English</td>
<td>LD</td>
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<td>A2</td>
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<tr>
<td>Communication I</td>
<td></td>
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<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
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<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
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<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
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<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
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<td>Arts or Humanities</td>
<td>LD</td>
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<td>C1 or C2</td>
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<td>C3</td>
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<td>Social Sciences</td>
<td>LD</td>
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<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
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<td>D2</td>
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<td>Social Sciences: US &amp; CA Government</td>
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<td>D3</td>
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<td>Lifelong Learning and Self-Development (LLD)</td>
<td>UD or UD</td>
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<td>Physical and/or Life Science</td>
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<td>UD-B</td>
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<td>Social Sciences</td>
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</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 year)**

This roadmap opens in a new tab. (p. 1070)

**Transfer Student Roadmap (2 year)**

For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1072)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Biology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California
Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Biology: Concentration in Marine Biology and Limnology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 66

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I and General Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227 or PHYS 121 &amp; PHYS 122</td>
<td>Calculus II or General Physics II and General Physics II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
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</table>
Bachelor of Science in Biology: Concentration in Marine Biology and Limnology Roadmap

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 525 or BIOL 630</td>
<td>3</td>
</tr>
<tr>
<td>Plant Physiology or Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Two</td>
<td>6</td>
</tr>
</tbody>
</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Units on Advisement ³</th>
<th>3-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Electives (14-17 units) – Take Two ⁴</td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

### Eighth Semester

| Upper Division Electives (14-17 units) – Take Two ⁴                  | 6     |
| SF State Studies or University Elective – Take Two                  | 6     |

**Total Units** 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP; ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Units on Advisement (3-5 units)**
   - BIOL 534 Wetland Ecology (4 units)
   - BIOL 580 Limnology (3 units)
   - BIOL 582 Biological Oceanography (4 units)
   - BIOL 585 Marine Ecology (3 units)
   - and BIOL 586 Marine Ecology Laboratory (2 units)
4. **Upper Division Electives (14-17 units)**
   - BIOL 502 Biology of the Algae (3 units)
   - BIOL 526 Plant Molecular Physiology Laboratory (2 units)
   - BIOL 532 Restoration Ecology (3 units)
   - BIOL 555 Marine Invertebrate Zoology (4 units)
   - BIOL 556 Natural History of Marine Invertebrates (4 units)
   - BIOL 570DW Biology of Fishes - GWAR (4 units)
   - BIOL 575 Fisheries Biology (3 units)
   - BIOL 584 Marine Microbial Ecology Laboratory (1 units)
   - BIOL 586 Marine Ecology Laboratory (2 units)
   - BIOL 631GW Animal Physiology Laboratory - GWAR (4 units)
   - CHEM 680 Chemical Oceanography (3 units)
   - ERTH 434 Coastal Processes (3 units)
   - ERTH 642 Watershed Assessment and Restoration (4 units)
**Bachelor of Science in Biology: Concentration in Marine Biology and Limnology – BIOL Associate Degree for Transfer Roadmap**

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 570GW</td>
<td>Biology of Fishes - GWAR ¹</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 met in transfer ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics ³</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
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<td>3</td>
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<tr>
<td>University Elective</td>
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<td>1</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 630</td>
<td>or Animal Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Wetland Ecology</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 582</td>
<td>or Biological Oceanography</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
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<td>3</td>
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<tr>
<td>University Elective</td>
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<td>1-2</td>
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<tr>
<td><strong>Units</strong></td>
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<td>14</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>University elective or UD GE (C or D) if needed</td>
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<td></td>
</tr>
<tr>
<td>Major Upper Division Electives  ⁴</td>
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<td>13</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>16</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ If ENG 214 equivalent not taken before transfer, take this course or BIOL 631GW course in a subsequent semester (note that BIOL 630 must be taken before or concurrently with BIOL 631GW). While completion in 60 units is still possible, progress to degree will be extended.

² Some GE Area UD–C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule.

³ BIOL 355 satisfies GE Area UD–B: Upper Division Physical and/or Life Sciences.

⁴ Select upper division electives in consultation with an advisor.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 15–21 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer. See note 1.
- American Institutions (0–6 units): See next bullet.
• Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
• Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
• Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Biology – Marine Biology and Limnology Major: 36–37 Units**
BIOL 230/BIOL 240, MATH 226, all PHYS, CHEM 115/CHEM 215/CHEM 216 met in transfer.

• Lower Division requirements (3 units): CHEM 130
• Major Upper Division Requirements (16–17 units)
• Major Upper Division Electives – includes GWAR (17 units) – upon advisement. See note 2.

**University Electives: One Unit or More**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Bachelor of Science in Biology: Concentration in Microbiology

Impaction
All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements

- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C— or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)
(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,
- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.
- General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Microbiology
The student may select courses emphasizing general microbiology or medical microbiology. The selection of an appropriate program not only prepares the student for careers in research, industry, public health, clinical laboratory, or state or federal service but also provides the basis for post-graduate study which may lead to the Master of Arts in Biology: Concentration in Microbiology.

For students interested in applying to Clinical Laboratory Science programs, it is recommended that they complete the B.S. in Biology Concentration in Microbiology which has been modified to meet most of the requirements for the discontinued Clinical Science degree (Clinical Science Track). Students should meet with their Microbiology Major Advisor to discuss the specifics of this modified degree.

Biology (B.S.): Concentration in Microbiology — 68–69 units

General Education Met in the Major
General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD–B) is satisfied upon completion of BIOL 355.

Lower Division Requirements (38–39 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts and General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>
MATH 226 Calculus I 4
PHYS 111 General Physics I 4
& PHYS 112 and General Physics I Laboratory 4
PHYS 121 General Physics II 4
& PHYS 122 and General Physics II Laboratory 4
Select 3–4 units from the following: 3–4
MATH 124 Elementary Statistics
MATH 227 Calculus II
MATH 228 Calculus III
CSC 210 Introduction to Computer Programming
BIOL 358 Forensic Genetics: Math Matters
BIOL 458 Biometry

Upper Division Requirements (30 units)
BIOL 355 Genetics 3
BIOL 401 General Microbiology 6
& BIOL 402GW and General Microbiology Laboratory - GWAR
BIOL 442 Microbial Physiology 3
CHEM 335 Organic Chemistry II 3
CHEM 340 Biochemistry I 3
or CHEM 349 General Biochemistry

Electives in Microbiology
Select 12 units from the following courses, including at least three laboratory courses with approval of an advisor. Any course taken as an elective that does not appear on this list will not be counted towards completion of the Microbiology degree requirements unless the course is approved by an advisor prior to enrolling in it. Any course taken as an elective that does not appear on this list will not be counted towards the completion of the Microbiology degree requirements unless it is approved by an advisor prior to enrolling in the course.

BIOL 351GW Experiments in Cell and Molecular Biology - GWAR 4
BIOL 420 General Virology 3
BIOL 425 Emerging Diseases 3
BIOL 430 Medical Microbiology 3
BIOL 431 Medical Microbiology Laboratory 2
BIOL 435 Immunology 3
BIOL 436 Immunology Laboratory 2
BIOL 443 Microbial Physiology Laboratory 2
BIOL 446 Microbial Genomics 4
BIOL 453 General Parasitology 3
BIOL 454 Parasitology Laboratory 1
BIOL 490 Ecology of Infectious Diseases 4
BIOL 625 Hematology 3
BIOL 638 Bioinformatics & Genome Annotation 4
BIOL 699 Independent Study in Biology 1-3
BIOL/Chem/ ERTH 741 Electron Microscopy 4
CHEM 336 Organic Chemistry II Laboratory 2
or CHEM 343 Biochemistry I Laboratory

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humans</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
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<td>LD</td>
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<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
Environmental Sustainability (ES) | LD or UD | 3 |
Global Perspectives (GP) | LD or UD | 3 |
Social Justice (SJ) | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.
First Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1078)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1080)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Biology
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government

- a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AIEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.
Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

*For more information, visit the Undergraduate Admissions section.*

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - a. One course in oral communication (same as CSU GE area A1)
  - b. One course in written composition (same as CSU GE area A2)
  - c. One course in critical thinking (same as CSU GE area A3)
  - d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Science in Biology: Concentration in Microbiology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 68

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I and General Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts and General Chemistry II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 121 &amp; PHYS 122</td>
<td>General Physics II and General Physics II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>Lower Division Requirement – Select One</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 401 &amp; BIOL 402GW</td>
<td>General Microbiology and General Microbiology Laboratory - GWAR</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

---

1. GE Area A: Oral Communication (A1) or Critical Thinking (A3) is required.
2. GE Area A: Written English Communication (A2) is required.
3. Lower Division Requirement includes the following courses:
   - Lower Division Requirement – Select One: Choose one course from the following:
     - Lower Division Requirement – Select One: 3-4 units
   - GE Area C: Arts (C1) or Humanities (C2): 3 units
   - GE Area C: Humanities: Literature (C3): 3 units
   - GE Area D: Social Sciences (D1): 3 units

---

1078
### Bachelor of Science in Biology: Concentration in Microbiology Roadmap

**GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 442</td>
<td></td>
</tr>
<tr>
<td>CHEM 340</td>
<td></td>
</tr>
<tr>
<td>or CHEM 349</td>
<td></td>
</tr>
<tr>
<td>Upper Division Electives (12 Units Total) – Take Two 4</td>
<td>6</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Units | 120-121 |

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Lower Division Requirement**
   - BIOL 358 Forensic Genetics: Math Matters (4 units)
   - BIOL 458 Biometry (4 units)
   - CSC 210 Introduction to Computer Programming (3 units)
   - MATH 124 Elementary Statistics (3 units)
   - MATH 227 Calculus II (4 units)
   - MATH 228 Calculus III (4 units)
4. **Electives in Microbiology**
   - Select 12 units from the following courses, including at least three laboratory courses with approval of an advisor. Any course taken as an elective that does not appear on this list will not be counted towards completion of the Microbiology degree requirements unless the course is approved by an advisor prior to enrolling in it. Any course taken as an elective that does not appear on this list will not be counted towards the completion of the Microbiology degree requirements unless it is approved by an advisor prior to enrolling in the course.
   - BIOL 351GW Experiments in Cell and Molecular Biology - GWAR (4 units)
   - BIOL 420 General Virology (3 units)
   - BIOL 425 Emerging Diseases (3 units)
   - BIOL 430 Medical Microbiology (3 units)
   - BIOL 431 Medical Microbiology Laboratory (2 units)
   - BIOL 435 Immunology (3 units)
   - BIOL 436 Immunology Laboratory (2 units)
   - BIOL 443 Microbial Physiology Laboratory (2 units)
   - BIOL 446 Microbial Genomics (4 units)
   - BIOL 453 General Parasitology (3 units)
   - BIOL 454 Parasitology Laboratory (1 units)
   - BIOL 490 Ecology of Infectious Diseases (4 units)
   - BIOL 625 Hematology (3 units)
   - BIOL 638 Bioinformatics & Genome Annotation (4 units)
   - BIOL 699 Independent Study in Biology (1-3 units)
   - BIOL 741/CHEM 741/ERTH 741 Electron Microscopy (4 units)
   - CHEM 336 Organic Chemistry II Laboratory (2 units)
   - or CHEM 343 Biochemistry I Laboratory (3 units)
**Bachelor of Science in Biology: Concentration in Microbiology – BIOL Associate Degree for Transfer Roadmap**

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/Biol 240, CHEM 115/Chem 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. [Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information](http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>Major Lower Division Requirement – See List</td>
<td>or University Elective if already satisfied</td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>or University Elective if US History met before transfer</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 401</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 402GW</td>
<td>General Microbiology Laboratory - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 340 or CHEM 349</td>
<td>Biochemistry I or General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 442</td>
<td>Microbial Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University Elective or UD-C or UD-D if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

1. Some GE Area UD-C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule.

2. BIOL 355 satisfies GE Area UD-B: Upper Division Physical and/or Life Sciences.

3. Select upper division electives in consultation with an advisor. Must include at least three lab courses.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 15–21 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): See bullet.
• Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
• Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
• Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Biology – Microbiology Major: 37 Units**

BIOL 230/BIOL 240, MATH 226, all PHYS, CHEM 115/CHEM 215/CHEM 216 met in transfer.

• Lower Division requirements (7 units): CHEM 233; MATH 124, MATH 227, MATH 228 OR CSC 210 if not met in transfer
• Major Upper Division Requirements/GWAR (18 units)
• Major Upper Division Electives (12 units) – upon advisement. See note 1.

**University Electives: Two or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.

**Major Lower Division Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Biology: Concentration in Physiology

Impaction
All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No late applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements

- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C– or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)
(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,

- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.
- General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Physiology
This program is designed to provide a firm foundation in physiology. Students interested in vertebrate, invertebrate, and plant physiology will find this concentration appropriate. The program is especially suited for preparation for advanced study at the postgraduate level or to prepare for careers in the health professions. In addition to major curricula in physiology, service courses are provided for nursing, clinical science, exercise physiology, kinesiology, and physical therapy majors.

Biology (B.S.): Concentration in Physiology – 67 units

General Education Met in the Major
General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD–B) is satisfied upon completion of BIOL 355.

The GWAR in the B.S. biology, physiology concentration, can be satisfied with the physiology lab courses BIOL 613GW or BIOL 631GW.

Lower Division Requirements (38–39 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>&amp; CHEM 216</td>
<td>General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

Select 3–4 units from the following: 3-4
Bachelor of Science in Biology: Concentration in Physiology

BIOL 358 Forensic Genetics: Math Matters 2
BIOL 458 Biometry
MATH 124 Elementary Statistics
MATH 227 Calculus II
PHYS 111 General Physics I
& PHYS 112 and General Physics I Laboratory
& PHYS 121 and General Physics II
& PHYS 122 and General Physics II Laboratory
or PHYS 220 General Physics with Calculus I
& PHYS 222 and General Physics with Calculus I Laboratory
& PHYS 230 and General Physics with Calculus II
& PHYS 232 and General Physics with Calculus II Laboratory

Upper Division Requirements (29–33 units)
CHEM 340 Biochemistry I 3
or CHEM 349 General Biochemistry
BIOL 350 Cell Biology 3
BIOL 355 Genetics 3

Physiology Core Courses
Select nine units from the following (One lecture must be BIOL 612 or BIOL 630):
BIOL 525 Plant Physiology
BIOL 612 Human Physiology
BIOL 616 Cardiorespiratory Physiology
BIOL 617 Environmental Physiology
BIOL 618 Biology of Aging
BIOL 620 Endocrinology
BIOL 621 Reproductive Physiology
BIOL 622 Hormones and Behavior
BIOL 630 Animal Physiology
BIOL 640 Cellular Neurosciences
BIOL 642 Neural Systems Physiology

Physiology Lab
Select one course (2–4 units) from the following:
BIOL 526 Plant Molecular Physiology Laboratory
BIOL 613GW Human Physiology Laboratory - GWAR
BIOL 631GW Animal Physiology Laboratory - GWAR

Electives
Select 10–11 units in consultation with an advisor from the following:
Criteria for elective units: one elective must contain a laboratory component; one elective must be chosen from each of the emphases listed below; and additional electives may be selected from the list of physiology core courses and/or either of the emphases listed below.

Cellular and Molecular Emphasis
BIOL 351GW Experiments in Cell and Molecular Biology - GWAR 4
BIOL 357 Molecular Genetics 3
BIOL 382 Developmental Biology 3
BIOL 435 Immunology 3
BIOL 615 Molecular Pathophysiology 3
BIOL 652 Science Education Partners in Biology 4
BIOL 699 Independent Study in Biology 1-3
BIOL 623 Pharmacology (undergraduate students only) 3

BIOL 723 Pharmacology (graduate students only) 3
BIOL 865 Advances in Physiology and Behavioral Biology 2
CHEM 343 Biochemistry I Laboratory 3

Ecological, Anatomical, and Evolutionary Emphasis
BIOL 328 Human Anatomy 4
BIOL 337 Evolution 3
BIOL 482 Ecology 4
BIOL 504 Biology of the Fungi 4
BIOL 505 Comparative Anatomy of Vascular Plants 4
BIOL 529GW Plant Ecology - GWAR 4
BIOL 555 Marine Invertebrate Zoology 4
BIOL 585 Marine Ecology 3
BIOL 586 Marine Ecology Laboratory 2
BIOL 600 Animal Behavior 3
BIOL 614 Vertebrate Histology 4
BIOL 652 Science Education Partners in Biology 4
BIOL 699 Independent Study in Biology 1-3
BIOL 865 Advances in Physiology and Behavioral Biology 2

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Note: Courses may be used only once within the major. No more than one BIOL 699 may be used as an elective.

1 Students interested in pursuing graduate study in physiology should take the one-year organic chemistry sequence (CHEM 233/CHEM 335) and the one-year biochemistry sequence (CHEM 340/CHEM 341) in place of CHEM 130 and CHEM 349.

2 BIOL 358 may be used as an upper division elective in the Cell and Molecular Emphasis if it has not been used to satisfy any lower division requirements.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
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<td>A1</td>
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<tr>
<td>Communication</td>
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<td></td>
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<tr>
<td>Written English Communication I</td>
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<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
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<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
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<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
</tbody>
</table>
Humanities:  
Literature: LD 3 C3
Social Sciences: LD 3 D1
Social Sciences: US History: LD 3 D2
Social Sciences: US & CA Governance: LD 3 D3
Lifelong Learning and Self-Development (LLD): LD or UD 3 E
Physical and/or Life Science: UD 3 UD-B
Arts and/or Humanities: UD 3 UD-C
Social Sciences: UD 3 UD-D

**SF State Studies**
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM): LD or UD 3
Environmental Sustainability (ES): LD or UD 3
Global Perspectives (GP): LD or UD 3
Social Justice (SJ): LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap**
This roadmap opens in a new tab. (p. 1086)

**Transfer Student Roadmap**
For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1089)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Biology
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:
- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:
- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this
 Bachelor of Science in Biology: Concentration in Physiology

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Science in Biology: Concentration in Physiology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 67

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Comm. (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Comm. (A2)</td>
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<td>3</td>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Comm. (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Comm. II (A4)</td>
<td>or Written English Comm. (A2) Stretch II</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
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<tr>
<td>Select One:</td>
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<tr>
<td>MATH 124</td>
<td>Elementary Statistics</td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td></td>
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<tr>
<td>BIOL 358</td>
<td>Forensic Genetics: Math Matters</td>
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<tr>
<td>BIOL 458</td>
<td>Biometry</td>
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<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I</td>
<td>4</td>
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<tr>
<td>or PHYS 220 &amp; PHYS 222</td>
<td>or General Physics with Calculus I</td>
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<tr>
<td>GE Area A: Written English Comm. II (A4)</td>
<td>or not already satisfied</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
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<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
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<tr>
<td>PHYS 121 &amp; PHYS 122</td>
<td>General Physics II</td>
<td>4</td>
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<tr>
<td>or PHYS 230 &amp; PHYS 232</td>
<td>or General Physics with Calculus II</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 612 or BIOL 630</td>
<td>Human Physiology</td>
<td>3</td>
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<tr>
<td>or Animal Physiology</td>
<td></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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</table>
**Bachelor of Science in Biology: Concentration in Physiology Roadmap**

<table>
<thead>
<tr>
<th>GE Area D: Social Sciences (D1)</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
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<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Sixth Semester**

<table>
<thead>
<tr>
<th>BIOL 350</th>
<th>Cell Biology</th>
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<tbody>
<tr>
<td>CHEM 340 or CHEM 349</td>
<td>Biochemistry I or General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Physiology Core Courses (6 Units Total)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Seventh Semester**

| BIOL 526 | Plant Molecular Physiology Laboratory | 2-4 |
| BIOL 613GW | Human Physiology Laboratory - GWAR | |
| BIOL 631GW | Animal Physiology Laboratory - GWAR | |
| Major Upper Division Electives (10-11 Units Total) – Take Two | 4-7 |
| Physiology Core Courses (6 Units Total) | 3 |
| SF State Studies or University Elective | 3 |
| **Units** | **15-17** |

**Eighth Semester**

| Major Upper Division Electives (10-11 Units Total) – Take Two | 4-7 |
| SF State Studies or University Elective – Take Three | 9 |
| **Units** | **13-16** |
| **Total Units** | **120-126** |

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Physiology Core Courses**
   - BIOL 525 Plant Physiology (3 units)
   - BIOL 612 Human Physiology (3 units)
   - BIOL 616 Cardiorespiratory Physiology (3 units)
   - BIOL 617 Environmental Physiology (3 units)
   - BIOL 618 Biology of Aging (3 units)
   - BIOL 620 Endocrinology (3 units)
   - BIOL 621 Reproductive Physiology (3 units)
   - BIOL 622 Hormones and Behavior (3 units)
   - BIOL 630 Animal Physiology (3 units)
   - BIOL 640 Cellular Neurosciences (3 units)
   - BIOL 642 Neural Systems Physiology (3 units)
4 Select 10-11 units in consultation with an advisor from the following:
Criteria for elective units: one elective must contain a laboratory component; one elective must be chosen from each of the emphases listed below; and additional electives may be selected from the list of physiology core courses and/or either of the emphases listed above.

**Cellular and Molecular Emphasis**
- BIOL 351GW Experiments in Cell and Molecular Biology - GWAR (4 units)
- BIOL 357 Molecular Genetics (3 units)
- BIOL 382 Developmental Biology (3 units)
- BIOL 435 Immunology (3 units)
- BIOL 615 Molecular Pathophysiology (3 units)
- BIOL 623 Pharmacology (3 units)
- BIOL 652 Science Education Partners in Biology (4 units)
- BIOL 699 Independent Study in Biology (1-3 units)
- BIOL 723 Pharmacology (3 units)
- BIOL 865 Advances in Physiology and Behavioral Biology (2 units)
- CHEM 343 Biochemistry I Laboratory (3 units)

**Ecological, Anatomical, and Evolutionary Emphasis**
- BIOL 328 Human Anatomy (4 units)
- BIOL 337 Evolution (3 units)
- BIOL 482 Ecology (4 units)
- BIOL 504 Biology of the Fungi (4 units)
- BIOL 505 Comparative Anatomy of Vascular Plants (4 units)
- BIOL 529GW Plant Ecology - GWAR (4 units)
- BIOL 555 Marine Invertebrate Zoology (4 units)
- BIOL 585 Marine Ecology (3 units)
- BIOL 586 Marine Ecology Laboratory (2 units)
- BIOL 600 Animal Behavior (3 units)
- BIOL 614 Vertebrate Histology (4 units)
- BIOL 652 Science Education Partners in Biology (4 units)
- BIOL 699 Independent Study in Biology (1-3 units)
- BIOL 865 Advances in Physiology and Behavioral Biology (2 units)
### Bachelor of Science in Biology: Concentration in Physiology – BIOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124 or MATH 227</td>
<td>Elementary Statistics ¹ or Calculus II</td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 met in transfer</td>
<td></td>
<td></td>
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<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics ³</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 340 or CHEM 349</td>
<td>Biochemistry I or General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UC-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BIOL 612 or BIOL 630</td>
<td>Human Physiology or Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 613GW or BIOL 631GW</td>
<td>Human Physiology Laboratory - GWAR or Animal Physiology Laboratory - GWAR</td>
<td>3-4</td>
</tr>
<tr>
<td>Major Physiology Core – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Physiology Elective ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UC-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Major Physiology Core – See List</td>
<td></td>
<td>3</td>
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<tr>
<td>Major Physiology Electives ⁴</td>
<td></td>
<td>7-8</td>
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<tr>
<td>Upper Division GE: UC-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ BIOL 458 may be substituted for MATH 124/MATH 227.
² Some GE Area UD–C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule.
³ BIOL 355 satisfies GE Area UD–B: Upper Division Physical and/or Life Sciences.
⁴ Select Physiology electives in consultation with an advisor; electives must meet specific criteria.

### To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
University-Wide Requirements: 12–21 Units

- ENG 214 or equivalent A4 course (0-3 units) if not taken before transfer
- American Institutions (0-6 units): See next bullet.
- Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
- Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
- Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

Biology – Physiology Major: 34–40 Units

BIOL 230/BIOL 240, MATH 226, all PHYS, CHEM 115/215 met in transfer.

- Lower Division requirements (3–7 units): CHEM 130; MATH 124 or MATH 227 if not met in transfer (BIOL 458 may substitute for MATH 124 or MATH 227)
- Upper Division requirements (31–33 units); includes
  - Upper division requirements (9 units): BIOL 350, BIOL 355; CHEM 340 or CHEM 349
  - Physiology Core and Lab Requirements/GWAR (12–13 units)
  - Physiology Electives (10–11 units) – upon advisement. See note 1.

University Electives: Zero Units or More

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State - some courses may meet more than one requirement, e.g. both in UD GE and the major.

Major Physiology Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 616</td>
<td>Cardiorespiratory Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 617</td>
<td>Environmental Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 618</td>
<td>Biology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 621</td>
<td>Reproductive Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 622</td>
<td>Hormones and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 640</td>
<td>Cellular Neurosciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 642</td>
<td>Neural Systems Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Biology: Concentration in Zoology

Impaction
All Biology concentrations are currently impacted which means there are more applications than capacity. Transfer student applications for admission to this major are accepted by the University’s Office of Undergraduate Admissions only during the application filing period of October 1 to November 30 (for admission the following fall). No later applications or applications for spring will be considered. Both new transfer and on-campus students wishing to change majors are required to submit an additional departmental application. See departmental website biology.sfsu.edu (http://biology.sfsu.edu) for supplemental program application and deadlines.

General Information and Requirements

- Candidates entering the bachelor’s programs in biology should have completed three years of high school mathematics and one year of high school chemistry to allow completion of the curriculum in a timely fashion (see Undergraduate Admission Requirements (p. 54)).
- All major course work must be completed with letter grades (CR/NC is not acceptable).
- A minimum grade point average of 2.0 in all course work is required to receive a degree in these programs.
- To remain enrolled in a biology course, students must be prepared to provide copies of transcripts demonstrating completion of prerequisite courses with a grade of C- or better.
- At least 12 units in biology must be completed at SF State.
- Early in the first semester, and at regular intervals thereafter, students must consult with a biology advisor to plan a program of study. For the most current advising information, go to biology.sfsu.edu (http://biology.sfsu.edu).

Graduation Writing Assessment Requirement (GWAR)
(Note: Prior to fall 2012, GWAR would have been satisfied by passing ENG 414 (or ENG 410 or ENG 411 for CMS students) or a GWAR designated course from another discipline.)

Students must earn a C or better in a GWAR course to satisfy the requirement.

Biology majors have flexibility for which GWAR course they can take to meet their requirement, as long as the prerequisites for the course have been completed.

In general,
- Cell & Molecular Biology majors should take BIOL 351GW;
- Microbiology majors should take BIOL 402GW;
- Botany, Ecology, and Zoology majors may choose between BIOL 475GW, BIOL 478GW or BIOL 529GW;
- Marine Biology majors may choose between BIOL 570GW or BIOL 631GW; and
- Physiology majors may choose between BIOL 613GW or BIOL 631GW.
- General Biology majors may take any BIOL GWAR class.

See also the Department of Biology home page for GWAR in Biology: biology.sfsu.edu/content/gwar (http://biology.sfsu.edu/content/gwar) or contact a departmental advisor for further information.

The department does not permit multiple concentrations within the biology degree program. All of the curricula require preliminary work in physics and chemistry because many important biological concepts are based squarely upon principles in the physical sciences. Also, each curriculum includes upper division work in the biological sciences so that students will receive reasonable breadth and depth in their degree program. Because of the sequential arrangement of courses students are urged to consult the descriptions for the prerequisites of all their courses.

Although course electives are listed for most of the majors, new electives are always being added to various programs. Therefore, we highly recommend that students seek advisement prior to enrolling in elective courses in their major.

Concentration in Zoology
This program provides students with a broad background in animal biology through coursework in evolutionary biology, ecology, behavior, anatomy, and physiology of both vertebrate and invertebrate animals. It is recommended that a background in both vertebrate and invertebrate biology be obtained through selection of appropriate elective courses.

Biology (B.S.): Concentration in Zoology — 67 units

General Education Met in the Major
General Education requirements met in the Biology major (all concentrations) or Undeclared with Interest in Biology:
The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 130 or CHEM 233.
- Areas B2 (Life Science) and B3 (Laboratory Science) are satisfied upon completion of BIOL 240.
- Upper Division General Education, Physical, and Life Sciences (UD–B) is satisfied upon completion of BIOL 355.

Lower Division Requirements (34–35 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 16-17 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 112</td>
<td>General Physics I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

16-17
Upper Division Requirements (19–21 units)

BIOL 337 Evolution 3
BIOL 355 Genetics 3
BIOL 458 Biometry 4
Select one on advisement of the following: 3
  BIOL 350 Cell Biology
  BIOL 357 Molecular Genetics
  BIOL 380 Evolutionary Developmental Biology
  BIOL 382 Developmental Biology
  BIOL 453 General Parasitology
  BIOL 600 Animal Behavior
  BIOL 621 Human Physiology
  BIOL 620 Endocrinology
  BIOL 621 Reproductive Physiology
  BIOL 630 Animal Physiology
Select 3–4 units on advisement from the following: 3-4
  BIOL 482 Ecology
  BIOL 529GW Plant Ecology - GWAR
  BIOL 530 Conservation Biology
  BIOL 532 Restoration Ecology
  BIOL 534 Wetland Ecology
  BIOL 577 Ecological and Environmental Modeling
  BIOL 580 Limnology
  BIOL 582 Biological Oceanography
  BIOL 585 Marine Ecology
  BIOL 586 Marine Ecology Laboratory

Taxonomy or Whole Organism Biology of an Invertebrate or Vertebrate

Select one course upon advisement.
  BIOL 460 General Entomology
  BIOL 461 Insect Taxonomy
  BIOL 464 Medical Entomology
  BIOL 475GW Herpetology - GWAR
  BIOL 478GW Ornithology - GWAR
  BIOL 555 Marine Invertebrate Zoology
  BIOL 570GW Biology of Fishes - GWAR

Electives (7–11 units)

Upon advisement choose from the alternates not used in fulfilling the requirements listed above or any other upper division biology courses not specifically excluded for major credit, or any graduate biology course.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA</td>
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<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Government</td>
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</tr>
<tr>
<td>Lifelong Learning</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3

Environmental Sustainability (ES) | LD or UD | 3

Global Perspectives (GP) | LD or UD | 3

Social Justice (SJ) | LD or UD | 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 1095)
Transfer Student Roadmap (2 Year)
For students with an AS-T in Biology. This roadmap opens in a new tab. (p. 1097)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Biology
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

• How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt; or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Biology: Concentration in Zoology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 67

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>Major Lower Division Requirement (16-17 Units Total) ³</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Major Lower Division Requirement (16-17 Units Total) ³</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
<tr>
<td>Major Lower Division Requirement (16-17 Units Total) ³</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>Major Lower Division Requirement (16-17 Units Total) ³</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Electives (7-11 Units Total) ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Selection One ⁵</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD--C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD--D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Major Upper Division Electives (7-11 Units Total) ⁴</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Selection Two ⁶</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Major Upper Division Taxonomy or Whole Organism Biology of an Invertebrate or Vertebrate ⁷</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>
### SF State Studies or University Elective – Take Two

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Upper Division Electives (7-11 Units Total) if not satisfied</td>
<td>0-3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Four</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total Units**: 120-126

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Upon advisement choose from the alternates not used in fulfilling the requirements listed above or any other upper division biology courses not specifically excluded for major credit, or any graduate biology course.
4. **Major Lower Division Requirements**
   - CHEM 215 General Chemistry II: Quantitative Applications of Chemistry Concepts (3 units)
   - CHEM 216 General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts (2 units)
   - MATH 226 Calculus I (4 units)
   - MATH 227 Calculus II (4 units)
   - PHYS 111 General Physics I (3 units)
   - PHYS 112 General Physics I Laboratory (1 unit)
   - PHYS 121 General Physics II (3 units)
   - PHYS 122 General Physics II Laboratory (1 unit)
5. **Major Upper Division Selection One**
   - BIOL 350 Cell Biology (3 units)
   - BIOL 357 Molecular Genetics (3 units)
   - BIOL 380 Evolutionary Developmental Biology (3 units)
   - BIOL 382 Developmental Biology (3 units)
   - BIOL 453 General Parasitology (3 units)
   - BIOL 600 Animal Behavior (3 units)
   - BIOL 612 Human Physiology (3 units)
   - BIOL 620 Endocrinology (3 units)
   - BIOL 621 Reproductive Physiology (3 units)
   - BIOL 630 Animal Physiology (3 units)
6. **Major Upper Division Selection Two**
   - BIOL 482 Ecology (4 units)
   - BIOL 529GW Plant Ecology - GWAR (4 units)
   - BIOL 530 Conservation Biology (3 units)
   - BIOL 532 Restoration Ecology (3 units)
   - BIOL 534 Wetland Ecology (4 units)
   - BIOL 577 Ecological and Environmental Modeling (4 units)
   - BIOL 580 Limnology (3 units)
   - BIOL 582 Biological Oceanography (4 units)
   - BIOL 585 Marine Ecology (3 units)
   - BIOL 586 Marine Ecology Laboratory (2 units)
7. **Major Upper Division Taxonomy or Whole Organism Biology of an Invertebrate or Vertebrate**
   - BIOL 460 General Entomology (4 units)
   - BIOL 461 Insect Taxonomy (4 units)
   - BIOL 464 Medical Entomology (3 units)
   - BIOL 476GW Herpetology - GWAR (3 units)
   - BIOL 478GW Ornithology - GWAR (4 units)
   - BIOL 555 Marine Invertebrate Zoology (4 units)
   - BIOL 570GW Biology of Fishes - GWAR (4 units)
# Bachelor of Science in Biology: Concentration in Zoology – BIOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Biology. Thirty-two units in the major (BIOL 230/BIOL 240, CHEM 115/CHEM 215/CHEM 216, MATH 226, required PHYS sequence) and 33 units of lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Requirement – also satisfies University GWAR – See List ¹</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) ¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74) ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics ³</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>4</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Requirement – See List A ⁴</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Requirement – See List B ⁴⁵</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Requirement – See List C ⁴⁶</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Electives ⁴</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>University Electives or UD-C or UD-D if needed</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹  If ENG 214 equivalent not taken before transfer, GWAR course must be taken in a subsequent semester. Timely progress to degree will be affected.
²  Some GE Area UD–C: Upper Division Arts and/or Humanities courses also satisfy US History. Check the Class Schedule
³  BIOL 355 satisfies GE Area UD–B: Upper Division Physical and/or Life Sciences.
⁴  Select course in consultation with an advisor.
⁵  If BIOL 529GW taken in the first semester, take University elective instead.
⁶  If BIOL 475GW, BIOL 478GW or BIOL 570GW taken in the first semester, take a University elective instead.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 12–21 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): See next bullet.
• Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units; D2 satisfies US History if needed; D3 satisfies US/CA Government requirement if needed)
• Upper division GE (6 units to do): 1) Major course satisfies UD-B. 2) Take UD-C and UD-D courses. See notes.
• Students entering this major with the AS-T in Biology are not required to fulfill SF State Studies or Complementary Studies requirements.

Biology – Zoology Major: 35 Units
BIOL 230/BIOL 240, MATH 226, all PHYS, CHEM 115/CHEM 215/CHEM 216 met in transfer.

• Lower Division requirements (3 units): CHEM 130 if not met in transfer
• Major Upper Division Requirements/GWAR (21 units)
• Major Upper Division Electives (11 units) – upon advisement. See note 4.

University Electives: Three or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.

Major Upper Division Requirement – Also Satisfies University GWAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 475GW</td>
<td>Herpetology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 478GW</td>
<td>Ornithology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 529GW</td>
<td>Plant Ecology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 570GW</td>
<td>Biology of Fishes - GWAR</td>
<td>4</td>
</tr>
</tbody>
</table>

Major Upper Division Requirement A

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 380</td>
<td>Evolutionary Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 382</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 453</td>
<td>General Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 600</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 612</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 620</td>
<td>Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 621</td>
<td>Reproductive Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 630</td>
<td>Animal Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Upper Division Requirement B

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 482</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 530</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 532</td>
<td>Restoration Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Wetland Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 577</td>
<td>Ecological and Environmental Modeling</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 580</td>
<td>Limnology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 582</td>
<td>Biological Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 585</td>
<td>Marine Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Upper Division Requirement C

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 460</td>
<td>General Entomology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 461</td>
<td>Insect Taxonomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 464</td>
<td>Medical Entomology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 555</td>
<td>Marine Invertebrate Zoology</td>
<td>4</td>
</tr>
</tbody>
</table>
Minor in General Biology

The Minor in Biology has been suspended for the 2017–2018 academic year because of impaction. No requests to declare the minor will be approved at this time. Students who have already declared a minor will be allowed to complete their course of study.

The minor requires a minimum of 23 units in biology, of which at least one-half must be upper division units.

All courses in the minor must be completed with letter grades (CR/NC is not acceptable).

General Biology Minor – 23 units

Lower Division Requirements (10 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Introductory Biology II</td>
<td>5</td>
</tr>
</tbody>
</table>

Upper Division Requirements (13 units)

Ecology Course

Select one course including fieldwork (3–5 units) from the following: 3–5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 482</td>
<td>Ecology</td>
</tr>
<tr>
<td>BIOL 529GW</td>
<td>Plant Ecology - GWAR</td>
</tr>
<tr>
<td>BIOL 532</td>
<td>Restoration Ecology</td>
</tr>
<tr>
<td>BIOL 534</td>
<td>Wetland Ecology</td>
</tr>
<tr>
<td>BIOL 580</td>
<td>Limnology</td>
</tr>
<tr>
<td>BIOL 582</td>
<td>Biological Oceanography</td>
</tr>
<tr>
<td>BIOL 585 &amp; BIOL 586</td>
<td>Marine Ecology and Marine Ecology Laboratory</td>
</tr>
</tbody>
</table>

Genetics or Evolution Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 337</td>
<td>Evolution</td>
<td></td>
</tr>
</tbody>
</table>

Physiology Course

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 442</td>
<td>Microbial Physiology</td>
</tr>
<tr>
<td>BIOL 525</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>BIOL 612</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>BIOL 630</td>
<td>Animal Physiology</td>
</tr>
</tbody>
</table>

Additional Upper Division Electives

Select 2–4 units approved by an advisor.

Certificate in Biotechnology

The Certificate in Biotechnology is designed to allow students who are pursuing an undergraduate major in biology or biochemistry to learn the theoretical basis, principles, and current applications of biotechnology. An integral part of the program is a supervised internship to be served in a Bay Area biotechnology company laboratory. Laboratory-oriented students will find an expanding demand for their skills upon completion of the program both in the Bay Area and nationwide.

Students must earn a grade of C or better in all prerequisite courses, and be prepared to provide copies of transcripts demonstrating completion of prerequisites.

Biotechnology, Certificate – 34–39 Units

Prerequisites (20 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 401</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 402GW</td>
<td>General Microbiology Laboratory - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 442</td>
<td>Microbial Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 443</td>
<td>Microbial Physiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses (6 Units)

At least one course must be selected, on advisement, from each of the following areas:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 694</td>
<td>Cooperative Internship in Biology (to be taken in final semester)</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Biochemistry I Laboratory</td>
</tr>
</tbody>
</table>

Elective Courses (8–13 Units)

Select 2 lecture and 2 laboratory courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>&amp; BIOL 351GW</td>
<td>Experiments in Cell and Molecular Biology - GWAR</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td>BIOL 420</td>
<td>General Virolology</td>
</tr>
<tr>
<td>BIOL 430</td>
<td>Medical Microbiology</td>
</tr>
<tr>
<td>BIOL 431</td>
<td>Medical Microbiology Laboratory</td>
</tr>
<tr>
<td>BIOL 435</td>
<td>Immunology</td>
</tr>
<tr>
<td>&amp; BIOL 436</td>
<td>Immunology Laboratory</td>
</tr>
<tr>
<td>or BIOL 711</td>
<td>Immunoassays</td>
</tr>
<tr>
<td>BIOL 781</td>
<td>Biomedical Virolology Foundations</td>
</tr>
<tr>
<td>BIOL 803</td>
<td>Core Concepts of Biotechnology</td>
</tr>
</tbody>
</table>

Certificate in Genetic Engineering

The Certificate in Genetic Engineering program is designed to allow students who have completed an undergraduate degree in basic science with a molecular biological emphasis to learn the techniques and principles of genetic engineering by both lecture and laboratory/project experience, balanced with an integrated presentation of both ethical concerns and safety considerations. This program will further prepare students to make transitions into careers in the area of biotechnology or to enter advanced degree programs. Graduate students intending to secure both a master’s degree and the certificate may pursue these objectives concurrently with consultation and approval of the graduate degree faculty advisor. All course work used to satisfy the requirements must be taken on an A–F graded basis and must be completed with a minimum grade point average of 3.0. Due to laboratory space limitations, total enrollment in the program will be restricted.

Before being considered for acceptance to the program, the student must first be eligible in accordance with all University requirements as outlined in the section Certificate Programs (p. 25). This same section also includes university program guidelines and procedures to be followed in filing for the award of the certificate when it is completed.
Admission to the Program
To be admitted to the program an applicant must have completed a baccalaureate degree and must be admitted to classified graduate standing in accordance with University standard admissions requirements and procedures. In addition applicants must:

1. Submit to the certificate coordinator a copy of transcripts used for the baccalaureate degree, transcripts of other relevant study, and evidence of graduate standing in the university. The following courses from San Francisco State University, or their equivalents, are prerequisites and must be completed before the program is initiated.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>6-7</td>
</tr>
<tr>
<td>&amp; BIOL 351GW</td>
<td>and Experiments in Cell and Molecular Biology - GWAR</td>
<td></td>
</tr>
<tr>
<td>or BIOL 401</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL 402GW&amp; General Microbiology Laboratory - GWAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>9</td>
</tr>
<tr>
<td>&amp; CHEM 341</td>
<td>and Biochemistry II</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 343</td>
<td>and Biochemistry I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

2. Submit to the coordinator a letter of application for admission to the certificate program. This letter should include a description of any relevant experience not evident in the transcripts.

3. Make arrangements to have a minimum of two letters of recommendation sent to the coordinator.

4. Submit a letter of admission to classified status in the graduate program.

5. Applications should be addressed to:
   Genetic Engineering Coordinator
   Department of Biology
   San Francisco State University
   San Francisco, CA 94132.

The specific course requirements shall be determined by the student’s committee and are based upon consideration of goals, interests, and undergraduate preparation. For additional details, contact the Graduate Program Coordinator.

Written English Proficiency Requirement
Demonstration of an appropriate level of writing competency shall be accomplished with the satisfactory preparation of written laboratory reports that demonstrate competency in scientific report writing and analysis of data. The instructor of this course shall determine whether reports have met those criteria and so specify on the Certificate Approved Program form. If the student’s work is unsatisfactory, additional course work directed to achieving English competency may be specified after consultation with the coordinator.

Master of Science in Biology: Concentration in Cell and Molecular Biology
A student interested in pursuing an advanced degree in any of these programs must meet the general requirements as outlined as well as any additional requirements specified by the major field of study.

For current advising information, including research and funding opportunities, consult the SF State Biology Department home page at biology.sfsu.edu. (http://biology.sfsu.edu)

General Admission Requirements
An applicant must have a baccalaureate degree from an accredited institution and the equivalent major course work for the program area to which application is made. To evaluate an applicant, the biology department requires the following:

1. Transcripts of all undergraduate work;
2. Graduate Record Examination scores for the general test;
3. A statement of purpose;
4. Two or more letters of recommendation, preferably from science faculty.

When the department receives this information, the completed file is forwarded to the faculty coordinator of the program area chosen by the applicant. The faculty in the program area evaluate the applicant’s file and recommend admission or denial based on the following criteria:

- Grade point average in the undergraduate major—minimum required GPA in science courses is 3.0
- Statement of purpose
- GRE scores
- Letters of recommendation

Denial of admission may be based on inadequacy in any of the above criteria, if an applicant’s interests are not represented by current faculty, or if faculty in the applicant’s area of interest are unable to support additional students.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two levels.

Level One
The student must pass a proctored essay test administered by the department at the beginning of the first semester.

Level Two
Prior to filing the Advancement to Candidacy (ATC), the student must prepare a thesis prospectus for approval by the student’s thesis committee.

Course Requirements
The general requirements of all students are as follows:

- All courses listed on the Advancement to Candidacy (ATC) (or to satisfy conditional requirements) must be completed with a letter grade. The culminating experience courses, BIOL 895 and BIOL 898 are the exception and will be graded on a CR/NC basis.
- A minimum of 30 units of upper division and/or graduate credit (may include up to six units of experimental courses in biology).
- A minimum of 21 units of which six units may be from a graduate level paired course.
- A minimum of two department seminars requiring student presentations.
- After initiating a research program, a graduate student must enroll each semester in BIOL 897 – until the research is completed.
• Four units of BIOL 898 or three units of BIOL 895.
• An oral defense of the thesis or research project.

On-line course descriptions (bulletin.sfsu.edu/courses) are available. Most upper division courses in biology are acceptable for the master’s in biology upon approval of the graduate advisor. Students are reminded to check the individual concentrations for additional requirements.

Concentration in Cell and Molecular Biology
This concentration is designed for students preparing for future graduate work as well as for those wishing to increase their competency in the fields of cell and molecular biology. It emphasizes the study of cells, cell organelles, macromolecules, and the regulation of their production and interaction. As such, it represents an expanding frontier of research that integrates biochemistry, biophysics, genetics, developmental biology, and cell ultrastructure. Each faculty member serves as advisor and major professor for students working on research programs in the faculty member’s area of specialization.

The specific course requirements shall be determined by the student’s committee and are based upon consideration such as goals, interests, and undergraduate preparation. A strong background in chemistry is highly recommended.

Master of Science in Biology: Concentration in Ecology, Evolution and Conservation Biology (EECB)
A student interested in pursuing an advanced degree in any of these programs must meet the general requirements as outlined as well as any additional requirements specified by the major field of study.

For current advising information, including research and funding opportunities, consult the SF State Biology Department home page at biology.sfsu.edu. (http://biology.sfsu.edu)

General Admission Requirements
An applicant must have a baccalaureate degree from an accredited institution and the equivalent major course work for the program area to which application is made. To evaluate an applicant, the biology department requires the following:

1. transcripts of all undergraduate work;
2. Graduate Record Examination scores for the general test;
3. a statement of purpose;
4. two or more letters of recommendation, preferably from science faculty.

When the department receives this information, the completed file is forwarded to the faculty coordinator of the program area chosen by the applicant. The faculty in the program area evaluate the applicant’s file and recommend admission or denial based on the following criteria:

• Grade point average in the undergraduate major—minimum required GPA in science courses is 3.0
• Statement of purpose
• GRE scores
• Letters of recommendation

Denial of admission may be based on inadequacy in any of the above criteria, if an applicant’s interests are not represented by current faculty, or if faculty in the applicant’s area of interest are unable to support additional students.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two levels.

Level One
The student must pass a proctored essay test administered by the department at the beginning of the first semester.

Level Two
Prior to filing the Advancement to Candidacy (ATC), the student must prepare a thesis prospectus for approval by the student’s thesis committee.

Course Requirements
The general requirements of all students are as follows:

• All courses listed on the Advancement to Candidacy (ATC) or to satisfy conditional requirements must be completed with a letter grade. The culminating experience courses, BIOL 895 and BIOL 898 are the exception and will be graded on a CR/NC basis.
• A minimum of 30 units of upper division and/or graduate credit (may include up to six units of experimental courses in biology).
• A minimum of 21 units of which six units may be from a graduate level paired course.
• A minimum of two department seminars requiring student presentations.
• After initiating a research program, a graduate student must enroll each semester in BIOL 897 – until the research is completed.
• Four units of BIOL 898 or three units of BIOL 895.
• An oral defense of the thesis or research project.

On-line course descriptions (bulletin.sfsu.edu/courses) are available. Most upper division courses in biology are acceptable for the master’s in biology upon approval of the graduate advisor. Students are reminded to check the individual concentrations for additional requirements.

Concentration in Ecology, Evolution, and Conservation Biology
This concentration is designed for students aiming to go on to Ph.D. programs or enter the workplace in fields such as systematics, evolution, conservation, population genetics, behavior of organisms; community, population, reproductive, behavioral, physiological, and evolutionary ecology; taxonomy, biodiversity, and biogeography. Each faculty member serves as advisor and major professor for students working on research programs in the faculty member’s area of specialization. With an advisor, students plan a program of courses that will meet their individual goals and academic or professional interests. For additional details, contact the faculty member whose specialization is of interest to you.
Master of Science in Biology: Concentration in Marine Biology

A student interested in pursuing an advanced degree in any of these programs must meet the general requirements as outlined as well as any additional requirements specified by the major field of study.

For current advising information, including research and funding opportunities, consult the SF State Biology Department home page at biology.sfsu.edu. (http://biology.sfsu.edu)

General Admission Requirements
An applicant must have a baccalaureate degree from an accredited institution and the equivalent major course work for the program area to which application is made. To evaluate an applicant, the biology department requires the following:

1. transcripts of all undergraduate work;
2. Graduate Record Examination scores for the general test;
3. a statement of purpose;
4. two or more letters of recommendation, preferably from science faculty.

When the department receives this information, the completed file is forwarded to the faculty coordinator of the program area chosen by the applicant. The faculty in the program area evaluate the applicant’s file and recommend admission or denial based on the following criteria:

- Grade point average in the undergraduate major—minimum required GPA in science courses is 3.0
- Statement of purpose
- GRE scores
- Letters of recommendation

Denial of admission may be based on inadequacy in any of the above criteria, if an applicant’s interests are not represented by current faculty, or if faculty in the applicant’s area of interest are unable to support additional students.

Written English Proficiency Requirement
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The student must pass a proctored essay test administered by the department at the beginning of the first semester.

Level Two
Prior to filing the Advancement to Candidacy (ATC), the student must prepare a thesis prospectus for approval by the student’s thesis committee.

Course Requirements
The general requirements of all students are as follows:

- All courses listed on the Advancement to Candidacy (ATC) (or to satisfy conditional requirements) must be completed with a letter grade. The culminating experience courses, BIOL 895 and BIOL 898 are the exception and will be graded on a CR/NC basis.

- A minimum of 30 units of upper division and/or graduate credit (may include up to six units of experimental courses in biology).
- A minimum of 21 units of which six units may be from a graduate level paired course.
- A minimum of two department seminars requiring student presentations.
- After initiating a research program, a graduate student must enroll each semester in BIOL 897 — until the research is completed.
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- An oral defense of the thesis or research project.

On-line course descriptions (bulletin.sfsu.edu/courses) are available. Most upper division courses in biology are acceptable for the master’s in biology upon approval of the graduate advisor. Students are reminded to check the individual concentrations for additional requirements.

Concentration in Marine Biology
Programs in this area reflect the fact that marine biology is a meeting place for all the biological sciences and some of the physical sciences. Graduate work may be broad or follow specific program areas as ecology, systematics, functional morphology, molecular biology, physiology, evolution, and behavior.

The marine program and facilities of San Francisco State University are strongly supported by the Romberg Tiburon Center for Environmental Studies (RTC), the marine and estuarine field station of SF State situated on San Francisco Bay in Marin County. RTC’s marine/estuarine scientists and oceanographers offer a broad range of courses at both RTC and the main campus. Courses offered by RTC faculty are listed in this Bulletin under Biology, Chemistry, Geography, and Geology. In addition, marine science courses are offered at Moss Landing Marine Laboratories, a laboratory on Monterey Bay operated by a consortium of California State University campuses. Courses offered at Moss Landing can be found in this Bulletin under Marine Science (p. 1663).

Students in the Master of Science in Biology: Concentration in Marine Biology program follow the requirements of the M.S. in Biology with specific coursework selected upon advisement.

For further information contact the program’s graduate coordinator. Applicants must have the equivalent of the Bachelor of Science in Biology at San Francisco State University.

Master of Science in Biology: Concentration in Microbiology

A student interested in pursuing an advanced degree in any of these programs must meet the general requirements as outlined as well as any additional requirements specified by the major field of study.

For current advising information, including research and funding opportunities, consult the SF State Biology Department home page at biology.sfsu.edu. (http://biology.sfsu.edu)

General Admission Requirements
An applicant must have a baccalaureate degree from an accredited institution and the equivalent major course work for the program area to which application is made. To evaluate an applicant, the biology department requires the following:

1. transcripts of all undergraduate work;
2. Graduate Record Examination scores for the general test;
3. a statement of purpose;
4. two or more letters of recommendation, preferably from science faculty.

When the department receives this information, the completed file is forwarded to the faculty coordinator of the program area chosen by the applicant. The faculty in the program area evaluate the applicant’s file and recommend admission or denial based on the following criteria:

- Grade point average in the undergraduate major—minimum required GPA in science courses is 3.0
- Statement of purpose
- GRE scores
- Letters of recommendation

Denial of admission may be based on inadequacy in any of the above criteria, if an applicant’s interests are not represented by current faculty, or if faculty in the applicant’s area of interest are unable to support additional students.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two levels.

Level One
The student must pass a proctored essay test administered by the department at the beginning of the first semester.

Level Two
Prior to filing the Advancement to Candidacy (ATC), the student must prepare a thesis prospectus for approval by the student's thesis committee.

Admission to Program
Applicants must possess a baccalaureate degree in biological or physical sciences, with at least two laboratory courses in microbiology, one year of general physics, one year of general chemistry, and one year of organic chemistry. Acceptance to fully classified status will be determined by departmental evaluation.

The specific course requirements shall be determined by the student’s committee and are based upon consideration such as; goals, interests, and undergraduate preparation. For additional details, contact the Graduate Program Coordinator.

Course Requirements
The general requirements of all students are as follows:

- All courses listed on the Advancement to Candidacy (ATC) (or to satisfy conditional requirements) must be completed with a letter grade. The culminating experience courses, BIOL 895 and BIOL 898 are the exception and will be graded on a CR/NC basis.
- A minimum of 30 units of upper division and/or graduate credit (may include up to six units of experimental courses in biology).
- A minimum of 21 units of which six units may be from a graduate level paired course.
- A minimum of two department seminars requiring student presentations.

- After initiating a research program, a graduate student must enroll each semester in BIOL 897 - until the research is completed.
- Four units of BIOL 898 or three units of BIOL 895.
- An oral defense of the thesis or research project.

On-line course descriptions (bulletin.sfsu.edu/courses) are available. Most upper division courses in biology are acceptable for the master's in biology upon approval of the graduate advisor. Students are reminded to check the individual concentrations for additional requirements.

Concentration in Microbiology
The study of microbes and viruses is central to the fields of microbiology, pathogenesis, immunity, and biomedicine. Microbiology is also important in the study of the biochemical and genetic properties of cells and organisms. The M.S. in Microbiology is flexible. With a program advisor, students may plan a program of courses that will meet their individual goals and academic or professional interests, such as preparation for professional or doctoral programs or employment. Prior undergraduate preparation will also be considered.

Master of Science in Biology: Concentration in Physiology and Behavioral Biology
A student interested in pursuing an advanced degree in any of these programs must meet the general requirements as outlined as well as any additional requirements specified by the major field of study.

For current advising information, including research and funding opportunities, consult the SF State Biology Department home page at biology.sfsu.edu. (http://biology.sfsu.edu)

General Admission Requirements
An applicant must have a baccalaureate degree from an accredited institution and the equivalent major course work for the program area to which application is made. To evaluate an applicant, the biology department requires the following:

1. transcripts of all undergraduate work;
2. Graduate Record Examination scores for the general test;
3. a statement of purpose;
4. two or more letters of recommendation, preferably from science faculty.

When the department receives this information, the completed file is forwarded to the faculty coordinator of the program area chosen by the applicant. The faculty in the program area evaluate the applicant’s file and recommend admission or denial based on the following criteria:

- Grade point average in the undergraduate major—minimum required GPA in science courses is 3.0
- Statement of purpose
- GRE scores
- Letters of recommendation

Denial of admission may be based on inadequacy in any of the above criteria, if an applicant’s interests are not represented by current faculty, or if faculty in the applicant’s area of interest are unable to support additional students.
Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two levels.

Level One
The student must pass a proctored essay test administered by the department at the beginning of the first semester.

Level Two
Prior to filing the Advancement to Candidacy (ATC), the student must prepare a thesis prospectus for approval by the student's thesis committee.

Admission to Program
In addition to the baccalaureate degree, or the equivalent, in biological sciences, the program requires that the applicant have the equivalent of one semester of upper division physiology with laboratory, two semesters of college physics, two semesters of general college chemistry, and one semester of organic chemistry.

Course Requirements
The general requirements of all students are as follows:

- All courses listed on the Advancement to Candidacy (ATC) (or to satisfy conditional requirements) must be completed with a letter grade. The culminating experience courses, BIOL 895 and BIOL 898 are the exception and will be graded on a CR/NC basis.
- A minimum of 30 units of upper division and/or graduate credit (may include up to six units of experimental courses in biology).
- A minimum of 21 units of which six units may be from a graduate level paired course.
- A minimum of two department seminars requiring student presentations.
- After initiating a research program, a graduate student must enroll each semester in BIOL 897 – until the research is completed.
- Four units of BIOL 898 or three units of BIOL 895.
- An oral defense of the thesis or research project.

On-line course descriptions (bulletin.sfsu.edu/courses) are available. Most upper division courses in biology are acceptable for the master's in biology upon approval of the graduate advisor. Students are reminded to check the individual concentrations for additional requirements.

Concentration in Physiology and Behavioral Biology
The Master of Science in Biology with a Concentration in Physiology and Behavioral Biology is a flexible program. With an advisor, the student may plan a program of study to fit his/her particular interests, such as preparation for employment or a Ph.D. program when the Master of Science is required.

Master of Science in Biomedical Science: Concentration in Biotechnology
This program prepares students to pursue advanced academic training in life sciences while developing professional workplace skills.

Biomedical Science (M.S.) — 31–34 units

Core Requirements (10 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 716</td>
<td>Skills for Scientific Proposal Writing</td>
<td>2</td>
</tr>
<tr>
<td>or BIOL 891</td>
<td>Biomedical Research Design</td>
<td></td>
</tr>
<tr>
<td>BIOL 803</td>
<td>Core Concepts of Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 871</td>
<td>Colloquium in Microbiology, Cell and Molecular Biology</td>
<td>2</td>
</tr>
<tr>
<td>BUS 788</td>
<td>Management Principles and Organizational Behavior</td>
<td>3</td>
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</table>

Concentration Requirements (11–14 units)
Approved graduate courses on advisement by program director/faculty advisor.

Culminating Experience (10 units)

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 890</td>
<td>Cooperative Internship (2-3 unit course to be repeated)</td>
<td>6</td>
</tr>
<tr>
<td>BIOL 895</td>
<td>Research Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Master of Science in Biomedical Science: Concentration in Stem Cell Science

Graduate advisors: L. Chen (Director), Romeo, Goldman, Domingo, Pasion, J. Chen, Chu, Burrus, Denet, Roy

Biomedical Science (M.S.) — 31–34 units

Core Requirements (10 units)

<table>
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**Recommended Concentration Courses:**
**(Academic Year 2015–2016)**

**Concentration in Stem Cell Science**

<table>
<thead>
<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>BIOL 763</td>
<td>Molecular Biology of Cancer</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 765</td>
<td>Biomedical Immunology Advanced Topics</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 782</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 784</td>
<td>Biomedical Virology Applications</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 793</td>
<td>Advances in Biomedical Hematology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 849</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 861</td>
<td>Advances in Cell and Molecular Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 881</td>
<td>Seminar: Cell and Molecular Biology</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 896</td>
<td>Directed Reading</td>
<td>1</td>
</tr>
</tbody>
</table>
CHEMISTRY AND BIOCHEMISTRY

College of Science and Engineering
Dean: Keith Bowman

Department of Chemistry and Biochemistry
TH 806
Phone: (415) 338–1288
Interim Chair: Teaster Baird, Jr.
Graduate Coordinators: Andrew Ichimura, Bruce Manning

Program Scope and Career Outlook
The Department of Chemistry and Biochemistry offers an outstanding educational environment for undergraduate and graduate students. Our mission is to educate, train, and produce versatile chemists and biochemists who understand both the theoretical basis and practical applications of their discipline. Department faculty provide quality instruction across a wide range of sub-disciplines. Our degree programs are designed to prepare students for various professional positions (e.g., biotechnology and pharmaceutical companies, chemical manufacturing, and other laboratory-based industries), health professions (e.g., medical, pharmacy, and dental school), graduate study, and teaching positions.

Students receive significant hands-on experience with modern instrumentation in our relatively small-sized lab classes, and the opportunity to participate in research projects under the direct supervision of our faculty. The department houses a variety of state-of-the-art research instrumentation, laboratory facilities, and computational labs. These include a Nuclear Magnetic Resonance (NMR) facility, a Mass Spectrometry (MS) facility, a Scanning Electron Microscopy (SEM) facility and the Computational Chemistry and Visualization (CCV) laboratory.

The Bachelor of Arts in Chemistry program is particularly well-suited for those students whose career goals involve the integration of chemistry with other fields. This program can be combined with another degree or minor to develop the unique synthesis of experience needed for careers in health professions, forensic science, environmental science, regulatory affairs, chemical engineering, patent law, management, sales, marketing, technical writing, scientific journalism, library science, and art restoration. This program also provides excellent preparation for high school science teachers. Students planning to become K–12 chemistry or science teachers should note that additional preparation beyond the major is required to meet the breadth requirements and should consult with the credential advisor in the Department of Chemistry and Biochemistry to review the state-mandated requirements.

The Bachelor of Science in Chemistry, which is approved by the American Chemical Society (ACS), prepares students to pursue a career in chemically-oriented industry or to begin graduate study in chemistry and other molecular sciences. The degree provides a solid foundation in mathematics and physics, breadth in chemical sub-disciplines (analytical, biochemical, inorganic, organic, and physical chemistry), and excellent hands-on training in laboratory and instrumental techniques.

The Bachelor of Science in Biochemistry is designed for students who wish to be particularly well qualified at the rapidly expanding interface between biology and chemistry. The degree includes extensive laboratory training, provides exceptional preparation for careers in biotechnology, and enjoys a favorable reputation among biotechnology companies in the Bay Area. This degree also provides a strong foundation for a graduate degree in biochemistry.

The Master of Science degree in Chemistry and the Master of Science degree in Chemistry with a concentration in Biochemistry are programs of study with research at the core. As the student focuses in depth on an independent scientific investigation, solid research and communication skills are developed. The goal of both M.S. degree programs is to provide students with a thorough grounding in laboratory and research skills, and in-depth training in their areas of specialization. Our M.S. program provides excellent training for:

1. careers in all aspects of the chemical industry (biotechnology, environment, process and analytical, basic research);
2. science educators seeking to increase their skill and knowledge base; and
3. students whose goal is advanced study at the Ph.D. level.

The M.S. in Chemistry program is approved by the ACS.

Significant features of our department include high-quality teaching, one-on-one advising for all of our majors, and opportunities for students to participate in research under the direct supervision of active faculty members who are recognized authorities in their field. Students interested in becoming involved in research should consult with an advisor and review faculty research interests on our department website (www.chembiochem.sfsu.edu (http://www.chembiochem.sfsu.edu)). Examples of research projects currently under investigation by our faculty members and their research students include:

Analytical Chemistry
Identification and quantitation of organic pollutants via Gas Chromatography/Mass Spectrometry (GC/MS) and Direct Sampling Mass Spectrometry (DSMS). Application of X-Ray Fluorescence spectrometry (XRF) to the determination of toxic elements in foods, supplements, and other products. Development of novel analytical techniques for separation and detection of redox-sensitive trace species.

Biochemistry
Biophysical Chemistry
Biophysical spectroscopic methods, including nanosecond time-resolved polarized absorption spectroscopy, to characterize biological function and examine the molecular basis of disease. Chromatin folding, dynamics, and stability.

Chemical Education
Identify student experiences and instructional practices that promote student success in chemistry courses and persistence in STEM majors. Design experiences to engage students in applying course-based chemistry knowledge to address community questions and societal needs.

Environmental Chemistry
Detection of trace levels of volatile organic compounds and heavy metals in urban air, water, and soil samples. Determination of structures and speciation of metals and trace elements adsorbed on environmental surfaces by X-ray absorption spectroscopy. Modeling speciation, precipitation, and adsorption reactions of trace elements in environmental systems. Development and characterization of reactive metallic and mineral-based remediation materials for soil and water contaminants. Investigation of the composition and degradation of organic matter in marine systems through quantification and modeling of natural carbon isotopes.

Organic/Bioorganic Chemistry

Materials and Inorganic Chemistry
Synthesis and characterization of semiconducting thin films with applications to solar cells, water splitting, water remediation and CO2 reduction. Growth and nucleation of crystalline TiO2 by atomic force microscopy (AFM) and in situ grazing incidence X-ray diffraction (GIXRD). Computational approaches to speed the development of solid-state batteries, photocatalysts, and quantum computers using Density Functional Theory and Molecular dynamics.

Natural Products Chemistry
Isolation and characterization of novel compounds from marine microorganisms from sediments, algae, and sponges with anti-cancer, or anti-malarial properties.

Physical Chemistry
Synthesis and characterization of heteroatom substituted zeolites by XRD, solid state MAS–NMR, and optical spectroscopy, with applications to photocatalysis of carbon dioxide to fuels. Photophysics and electron spin resonance (ESR) investigation of thin films for applications in photocatalysts and photocatalysis.

Professors
Baird, DeWitt, Erden, Esquerra, Gassner, Gerber, Komada, Manning, Palmer, Simonis, Wu

Associate Professors
Amagata, Anderson, Guliae, Ichimura,

Assistant Professors
Adelstein, Billingsley, Eroy-Reveles, Kuhn, Vikse

Research Associate Professor
Yen

Adjunct Professor
Runquist

Majors
• Bachelor of Arts in Chemistry (p. 1107)
• Bachelor of Science in Chemistry (p. 1115)
• Bachelor of Science in Biochemistry (p. 1120)

Minors
• Minor in Chemistry (p. 1127)

Masters
• Master of Science in Chemistry (p. 1127)
• Master of Science in Chemistry: Concentration in Biochemistry (p. 1127)

Bachelor of Arts in Chemistry
High school preparation for the chemistry and biochemistry degree programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Calculus is highly recommended.

Mandatory Advising
All undergraduate chemistry and biochemistry majors are required to meet with a major advisor several times over their academic career. First-time freshmen and new transfer students are required to meet with an advisor or attend a group advising session during the first semester of attendance. Continuing students enrolled in the following courses will be required to meet with an advisor that semester to avoid having a hold placed on their registration for the next semester.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 300</td>
<td>General Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Chemical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry I: Thermodynamics and Kinetics</td>
<td>3</td>
</tr>
</tbody>
</table>

• All courses used in the major program must be completed with letter grades (CR/NC not allowed) and a minimum GPA of 2.0 (SF State Major GPA).
• Grades of C or better are required in chemistry prerequisite courses.
• Other courses for the major must be completed with grades of C– or better with one exception.
Chemistry (B.A.) — 56 units

Lower Division Requirements (31 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 215 &amp;</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233 &amp;</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>Select one of the following:</td>
<td></td>
<td>8</td>
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<tr>
<td>PHYS 111 &amp;</td>
<td>General Physics I and General Physics I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 121 &amp;</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220 &amp;</td>
<td>General Physics with Calculus I Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 240 &amp;</td>
<td>General Physics with Calculus III</td>
<td>2</td>
</tr>
<tr>
<td>or CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Requirements (25 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 300</td>
<td>General Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Chemical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Quantitative Chemical Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 336</td>
<td>Organic Chemistry II Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Laboratory Electives

Students must complete at least three units of advanced laboratory electives selected from the list below. Courses from community colleges cannot be substituted for the courses on the list below. Consult with an advisor regarding select elective courses and check course co- and prerequisites before enrolling.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 327</td>
<td>Practical GC and HPLC</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Biochemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 370</td>
<td>Computer Applications in Chemistry and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 420</td>
<td>Environmental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 422</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 426</td>
<td>Advanced Inorganic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 451</td>
<td>Experimental Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 470</td>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case additional upper division courses will be needed to reach the required total.

1 CHEM 351 may be substituted for CHEM 300 and CHEM 353 may be substituted for CHEM 301 if prerequisites for CHEM 351 and CHEM 353 are met.
2 CHEM 338 may be substituted for CHEM 336.
3 By petition only. CHEM 699 and CHEM 470 may not both be used to fulfill the elective requirements.

Complementary Studies

Students in the B.A. chemistry program will satisfy the Complementary Studies Requirement with the completion of courses in physics and mathematics that are required for the major.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements Met in the Chemistry Major or Undeclared with Interest in Chemistry

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

Area B1 (Physical Science) is satisfied upon completion of CHEM 233. Area B3 (Laboratory Science) is satisfied upon completion of CHEM 234.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
</tbody>
</table>
Social Sciences: LD 3 D3
US & CA Government
Lifelong Learning and Self-Development (LLD)
Physical and/or Life Science UD 3 UD-B
Arts and/or Humanities UD 3 UD-C
Social Sciences UD 3 UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) LD or UD 3
Environmental Sustainability (ES) LD or UD 3
Global Perspectives (GP) LD or UD 3
Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1111)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Chemistry. This roadmap opens in a new tab. (p. 1113)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Chemistry
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.
An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.
Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.
Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.
A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:
• How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:
• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Arts in Chemistry Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 56

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td>-------</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 199</td>
<td>Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ³</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts and General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112 or PHYS 220/222</td>
<td>General Physics I or General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>CHEM 233 &amp; CHEM 234</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 121 &amp; PHYS 122 or PHYS 240/242</td>
<td>General Physics II or General Physics with Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>CHEM 321 &amp; CHEM 322</td>
<td>Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 335 &amp; CHEM 336</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory³</td>
<td>5</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
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<tr>
<td><strong>Total Units</strong></td>
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<td>111</td>
</tr>
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### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I or General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 349</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD−C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective&lt;sup&gt;4&lt;/sup&gt;</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Units**: 15

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 300</td>
<td>General Physical Chemistry I&lt;sup&gt;5&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD−B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>6</td>
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**Units**: 15

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Laboratory Electives&lt;sup&gt;7&lt;/sup&gt;</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area UD−D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective&lt;sup&gt;4&lt;/sup&gt;</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Units**: 12-13

**Total Units**: 120-121

---

1. To avoid taking additional units, it is recommended that you meet LLDD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. CHEM 338 may be substituted for CHEM 336.

4. **Complementary Studies**

   Students in the BA chemistry program will satisfy the Complementary Studies Requirement with the completion of courses in physics and mathematics that are required in the major.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

   CHEM 351 may be substituted for CHEM 300 and CHEM 353 may be substituted for CHEM 301 if prerequisites for CHEM 351 and CHEM 353 are met.

   CHEM 699 and CHEM 470 may not both be used to fulfill the elective requirements. Enrollment by petition only.

5. **Advanced Laboratory Electives**

   CHEM 327 Practical GC and HPLC (4 units)
   CHEM 343 Biochemistry I Laboratory (3 units)
   CHEM 370 Computer Applications in Chemistry and Biochemistry (3 units)
   CHEM 420 Environmental Analysis (3 units)
   CHEM 422 Instrumental Analysis (4 units)
   CHEM 426 Advanced Inorganic Chemistry Laboratory (2 units)
   CHEM 451 Experimental Physical Chemistry Laboratory (2 units)
   CHEM 470 Research (3 units)
   CHEM 699 Independent Study (1-6 units)
Bachelor of Arts in Chemistry – CHEM Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Chemistry. Thirty-four units in the major (CHEM 115/CHEM 215/CHEM 216, CHEM 233/CHEM 234, CHEM 335/CHEM 336, MATH 226/MATH 227, required PHYS sequence) and 33 units of lower division GE have been satisfied. Check with a major advisor about the most appropriate course sequence for you. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 340 or CHEM 349</td>
<td>Biochemistry I or General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 is met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74) or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 321 &amp; CHEM 322</td>
<td>Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 300 or CHEM 251 and CHEM 351</td>
<td>General Physical Chemistry I or Mathematics and Physics for Chemistry and Physical Chemistry I: Thermodynamics and Kinetics</td>
<td>3-6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two or Three</td>
<td></td>
<td>6-9</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75) or University Elective if U.s. and California Government met in transfer</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Division Requirement – Advanced Laboratory Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 15–24 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Lower division GE (6 units) – Area C (3 units in any subarea) and Area D (3 units in any subarea)
• Upper division GE, areas B, C and D (9 units)
• Students entering this major with the AS-T in Chemistry are not required to fulfill SF State Studies requirements.
• Complementary Studies is met in major with required PHYS and MATH courses.

Chemistry B.A.: 20–23 Units
Completed: CHEM 115/CHEM 215/CHEM 216, CHEM 233/CHEM 234, CHEM 335/CHEM 336, MATH 226/MATH 227, required PHYS sequence.

• Major Upper Division Requirements/GWAR (17-20 units)
• Major Advanced Laboratory Electives (3 units) – Consult with an advisor regarding selection of elective courses and check course co- and prerequisites before enrolling.

University Electives: 13 or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.
Bachelor of Science in Chemistry

High school preparation for the chemistry and biochemistry degree programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Calculus is highly recommended.

Mandatory Advising

All undergraduate chemistry and biochemistry majors are required to meet with a major advisor several times over their academic career. First-time freshmen and new transfer students are required to meet with an advisor or attend a group advising session during the first semester of attendance. Continuing students enrolled in the following courses will be required to meet with an advisor that semester to avoid having a hold placed on their registration for the next semester.

- All courses used in the major program must be completed with letter grades (CR/NC not allowed) and a minimum GPA of 2.0 (SFSU Major GPA).
- Grades of C or better are required in chemistry prerequisite courses.
- Other courses for the major must be completed with grades of C- or better with one exception.

Chemistry (B.S.) – 72 units

Lower Division Requirements (34 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 300</td>
<td>General Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Chemical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry I: Thermodynamics and Kinetics</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Requirements (38 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 333</td>
<td>Organic Chemistry I &amp; Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 251</td>
<td>Mathematics and Physics for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics with Calculus I &amp; General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 232</td>
<td>General Physics with Calculus II &amp; General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

CHEM 351     | Physical Chemistry I: Thermodynamics and Kinetics | 3     |
| CHEM 353     | Physical Chemistry II: Quantum Chemistry and Spectroscopy | 3 |
| CHEM 390GW   | Contemporary Chemistry and Biochemistry Research - GWAR | 3 |
| CHEM 426     | Advanced Inorganic Chemistry Laboratory              | 2     |
| CHEM 451     | Experimental Physical Chemistry Laboratory          | 2     |

Upper Division Electives

A minimum of nine units of electives must be selected from the following list of courses. Courses from community colleges cannot be substituted for the courses on the list below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 327</td>
<td>Practical GC and HPLC</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Biochemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 370</td>
<td>Computer Applications in Chemistry and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 420</td>
<td>Environmental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 422</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 433</td>
<td>Advanced Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 443</td>
<td>Biophysical Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 470</td>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 640</td>
<td>Advanced Topics in Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 645</td>
<td>Research Trends in Chemistry and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 680</td>
<td>Chemical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

1. CHEM 339 may be substituted for CHEM 336.
2. Students may substitute CHEM 343 for CHEM 426 or CHEM 451 upon prior approval of advisor. If CHEM 343 is used as a substitute, it can not also be used as an elective.
3. By petition only. CHEM 699 and CHEM 470 may not both be used to fulfill the elective requirements.

General Education Requirements Met in the Chemistry Major or Undeclared with Interest in Chemistry

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

Area B1 (Physical Science) is satisfied upon completion of CHEM 233.
Area B3 (Laboratory Science) is satisfied upon completion of CHEM 234.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
</tbody>
</table>

1115
<table>
<thead>
<tr>
<th>Category</th>
<th>LD/UD</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Life Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Lab Science</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Mathematics/Quantitative</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Reasoning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities:</td>
<td></td>
<td>3</td>
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<tr>
<td>Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US &amp; CA Government</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lifelong Learning and Self-</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Development (LLD)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM)
- Environmental Sustainability (ES)
- Global Perspectives (GP)
- Social Justice (SJ)

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 1118)

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.

- a course in U.S. History
- a course in U.S. & California Government
- a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

### Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#A3EL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical
analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Chemistry Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 72

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>CHEM 233 &amp; CHEM 234</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>CHEM 321 &amp; CHEM 322</td>
<td>Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 325 &amp; CHEM 336</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>CHEM 251</td>
<td>Mathematics and Physics for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry I: Thermodynamics and Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 353</td>
<td>Physical Chemistry II: Quantum Chemistry and Spectroscopy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 426</td>
<td>Advanced Inorganic Chemistry Laboratory $^5$</td>
<td>2</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Units: 14

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 451</td>
<td>Experimental Physical Chemistry Laboratory $^5$</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division Major Elective (9 Units Total) $^6$</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Units: 14

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Major Elective (9 Units Total) – Take Two $^6$</td>
<td></td>
<td>6-8</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Units: 15-17

Total Units: 120-122

---

1. To avoid taking additional units, it is recommended that you meet LL and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. CHEM 338 may be substituted for CHEM 336.
4. PHYS 240 and MATH 228 may be substituted for CHEM 251.
5. CHEM 343 may be substituted for either CHEM 426 or CHEM 451 with prior approval of an advisor; CHEM 699 (three units of research in one or more of these three disciplinary areas) may also be substituted with advisor approval.
6. **Major Electives**
   - CHEM 327 Practical GC and HPLC (4 units)
   - CHEM 341 Biochemistry II (3 units)
   - CHEM 343 Biochemistry I Laboratory (3 units)
   - CHEM 370 Computer Applications in Chemistry and Biochemistry (3 units)
   - CHEM 420 Environmental Analysis (3 units)
   - CHEM 422 Instrumental Analysis (4 units)
   - CHEM 433 Advanced Organic Chemistry (3 units)
   - CHEM 443 Biophysical Chemistry Laboratory (4 units)
   - CHEM 470 Research (3 units)
   - CHEM 640 Advanced Topics in Biochemistry (3 units)
   - CHEM 645 Research Trends in Chemistry and Biochemistry (3 units)
   - CHEM 680 Chemical Oceanography (3 units)
   - CHEM 699 Independent Study (1-6 units)
Bachelor of Science in Biochemistry

High school preparation for the chemistry and biochemistry degree programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Calculus is highly recommended.

Mandatory Advising

All undergraduate chemistry and biochemistry majors are required to meet with a major advisor several times over their academic career. First-time freshmen and new transfer students are required to meet with an advisor or attend a group advising session during the first semester of attendance. Continuing students enrolled in the following courses will be required to meet with an advisor that semester to avoid having a hold placed on their registration for the next semester.

- All courses used in the major program must be completed with letter grades (CR/NC not allowed) and a minimum GPA of 2.0 (SFSU Major GPA).
- Grades of C or better are required in chemistry prerequisite courses.
- Grades of C- or better are required in CHEM 341 and CHEM 343.
- Other courses for the major must be completed with grades of C- or better with one exception.

Biochemistry (B.S.) — 72 units

Lower Division Requirements (36 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 231</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>General Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Physical Chemistry I: Thermodynamics and Kinetics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 220</td>
<td>and General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 240</td>
<td>and General Physics with Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper Division Requirements (36 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 300</td>
<td>General Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>General Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Chemical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Biochemistry II Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Biochemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete at least 12 units of upper division chemistry and biology electives selected from the lists below. Courses from community colleges cannot be substituted for the courses on the list below. Electives must include at least one course with a CHEM prefix and at least three laboratory courses. Note that many biology electives have a BIOL 240 prerequisite. Students wishing to enroll in BIOL 350, BIOL 355, and BIOL 612 without completing the BIOL 240 prerequisite should contact an advisor prior to registration. Students should consult an advisor regarding selection of elective courses and check course co- and pre-requisites before enrolling. Graduate level courses in chemistry or appropriate courses in biology, physics, geosciences, and computer science may be substituted upon prior approval of advisor.

Upper Division Electives in Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 322</td>
<td>Quantitative Chemical Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 327</td>
<td>Practical GC and HPLC</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 336</td>
<td>Organic Chemistry II Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 370</td>
<td>Computer Applications in Chemistry and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 420</td>
<td>Environmental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 422</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 426</td>
<td>Advanced Inorganic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 433</td>
<td>Advanced Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 443</td>
<td>Biophysical Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 451</td>
<td>Experimental Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 470</td>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 640</td>
<td>Advanced Topics in Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 645</td>
<td>Research Trends in Chemistry and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 680</td>
<td>Chemical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 699</td>
<td>Independent Study</td>
<td>3</td>
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</tbody>
</table>

Upper Division Electives in Biology

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 350</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 351GW</td>
<td>Experiments in Cell and Molecular Biology - GWAR</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 355</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 357</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 401</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 402GW</td>
<td>General Microbiology Laboratory - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 420</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 435</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 436</td>
<td>Immunology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 612</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 613GW</td>
<td>Human Physiology Laboratory - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 638</td>
<td>Bioinformatics &amp; Genome Annotation</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 640</td>
<td>Cellular Neurosciences</td>
<td>3</td>
</tr>
</tbody>
</table>
CHEM 351 may be substituted for CHEM 300 and CHEM 353 may be substituted for CHEM 301 if prerequisites for CHEM 351 and CHEM 353 are met.

CHEM 338 may be substituted for CHEM 336.

By petition only, CHEM 699 and CHEM 470 may not both be used to fulfill the elective requirements.

General Education Requirements Met in the Biochemistry Major or Undeclared with Interest in Biochemistry

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area B1 (Physical Science) is satisfied upon completion of CHEM 233.
- Area B2 (Life Science) is satisfied upon completion of either BIOL 240 or CHEM 341.
- Area B3 (Laboratory Science) is satisfied upon completion of CHEM 234.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
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<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<tr>
<td>Arts or Humanities</td>
<td></td>
<td></td>
<td>C1 or C2</td>
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<td>Humanities:</td>
<td></td>
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<tr>
<td>Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<tr>
<td>Social Sciences:</td>
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<tr>
<td>US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
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<tr>
<td>Social Sciences:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Life Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts and/or</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Social Sciences UD 3 UD-D

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minorities (AERM)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(ES)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global Perspectives</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(GP)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Justice</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(SJ)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 year)

This link opens the current roadmap in a new tab. (p. 1123)

Transfer Student Roadmap (2 year)

For students with an AS-T in Chemistry. This Roadmap opens in a new tab. (p. 1125)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Chemistry

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:
• How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Biochemistry Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 72

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I or General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 and PHYS 222</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 215 &amp; CHEM 216</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts and General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 121 &amp; PHYS 122</td>
<td>General Physics II or General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240 and PHYS 242</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 233 &amp; CHEM 234</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Chemical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td>3</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>3</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>CHEM 341</td>
<td>Biochemistry II</td>
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</tr>
<tr>
<td>CHEM 343</td>
<td>Biochemistry I Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

1. **Course Requirements:**  
2. **Units:**
Major Electives (At Least 12 Units) 5 3
GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) 3
GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course) 3

| Seventh Semester | 
|-----------------|----------------|
| CHEM 300        | General Physical Chemistry I 4 3 |
| Major Electives (At Least 12 Units) – Take Two 5 | 4-8 |
| GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | 3 |
| SF State Studies or University Elective | 3 |

| Eighth Semester | 
|-----------------|----------------|
| CHEM 301        | General Physical Chemistry II 4 3 |
| Major Electives (At Least 12 Units) 5 | 2-4 |
| SF State Studies or University Elective – Take Three | 9 |

<table>
<thead>
<tr>
<th>Units</th>
<th>13-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units</td>
<td>120-126</td>
</tr>
</tbody>
</table>

1 To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3 Students may substitute CHEM 343 for CHEM 426 or CHEM 451 upon prior approval of advisor. If CHEM 343 is used as a substitute, it cannot also be used as an elective.
4 CHEM 351 may be substituted for CHEM 300 and CHEM 353 may be substituted for CHEM 301 if prerequisites for CHEM 351 and CHEM 353 are met.
5 **Upper Division Electives in Chemistry**  
CHEM 322 Quantitative Chemical Analysis Laboratory (2 units)  
CHEM 325 Inorganic Chemistry (3 units)  
CHEM 327 Practical GC and HPLC (4 units)  
CHEM 336 Organic Chemistry II Laboratory (2 units)  
CHEM 370 Computer Applications in Chemistry and Biochemistry (3 units)  
CHEM 420 Environmental Analysis (3 units)  
CHEM 422 Instrumental Analysis (4 units)  
CHEM 426 Advanced Inorganic Chemistry Laboratory (2 units)  
CHEM 433 Advanced Organic Chemistry (3 units)  
CHEM 443 Biophysical Chemistry Laboratory (4 units)  
CHEM 451 Experimental Physical Chemistry Laboratory (2 units)  
CHEM 470 Research (3 units)  
CHEM 640 Advanced Topics in Biochemistry (3 units)  
CHEM 645 Research Trends in Chemistry and Biochemistry (3 units)  
CHEM 680 Chemical Oceanography (3 units)  
CHEM 699 Independent Study (1-6 units)

**Upper Division Electives in Biology**  
BIOL 350 Cell Biology (3 units)  
BIOL 351GW Experiments in Cell and Molecular Biology - GWAR (4 units)  
BIOL 355 Genetics (3 units)  
BIOL 357 Molecular Genetics (3 units)  
BIOL 401 General Microbiology (3 units)  
BIOL 402GW General Microbiology Laboratory - GWAR (3 units)  
BIOL 420 General Virology (3 units)  
BIOL 435 Immunology (3 units)  
BIOL 436 Immunology Laboratory (2 units)  
BIOL 612 Human Physiology (3 units)  
BIOL 613GW Human Physiology Laboratory - GWAR (3 units)  
BIOL 638 Bioinformatics & Genome Annotation (4 units)  
BIOL 640 Cellular Neurosciences (3 units)
Bachelor of Science in Biochemistry – CHEM Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Chemistry. Thirty-four units in the major (CHEM 115/CHEM 215/CHEM 216, CHEM 233/CHEM 234, CHEM 335/CHEM 336, MATH 226/MATH 227, required PHYS sequence) and 33 units of lower division GE have been satisfied. Check with a major advisor about the most appropriate course sequence for you. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 230</td>
<td>Introductory Biology I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 340</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2) or Humanities: Literature (C3)</td>
<td>University Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Quantitative Chemical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Biochemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1) or U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 300</td>
<td>General Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 390GW</td>
<td>Contemporary Chemistry and Biochemistry Research - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td>Major Upper Division Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 301</td>
<td>General Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Upper Division Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. Choose area D3 if US/CA Government not met before transfer.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 15–21 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer. See next two bullets.
- Lower division GE (6 units) – Area C (3 units in any subarea) and Area D3 (3 units; choose this area if US/CA Government requirement not completed before transfer).
- Upper division GE, areas B, C and D (9 units) – check for courses in UD GE C or D that also fulfill U.S. History if not completed before transfer.
• Students entering the major with the AS-T in Chemistry are not required to fulfill SF State Studies or Complementary Studies requirements.

Biochemistry B.S.: 38 Units
Completed: CHEM 115/CHEM 215/CHEM 216, CHEM 233/CHEM 234, CHEM 335/CHEM 336, MATH 226/MATH 227, required PHYS sequence.

• Major Lower Division Requirements (5 units) – BIOL 230
• Major Upper Division Requirements/GWAR (33 units) - includes 12 elective units. Elective units must include at least one course with a CHEM prefix and at least three laboratory courses. Note that many BIOL electives require BIOL 240 as a prerequisite; enrollment without this prereq in BIOL 350, BIOL 355 and BIOL 612 may be permitted, but students must consult with a department advisor prior to registering for these courses.

University Electives: One Unit or More
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Minor Program in Chemistry

A minimum of 23 units of chemistry, including CHEM 115 and CHEM 215/CHEM 216, are required to qualify for a minor in chemistry. Ten of the 23 units must be upper division, with at least 6 of those units taken at SF State. Courses from community colleges cannot be used to meet the upper division unit requirement for the minor.

All courses must be completed with grades of C- or better (CR/NC grading is not accepted). Only one course from each of the following pairs can be counted towards the minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 130</td>
<td>General Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 233</td>
<td>Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 349</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 340</td>
<td>Biochemistry I</td>
<td></td>
</tr>
</tbody>
</table>

The following courses cannot be counted toward the minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Survey of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Survey of Chemistry Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Master of Science in Chemistry: Concentration in Biochemistry

Admission to Program

Students must meet these criteria:

- Satisfy the University’s admission requirements.
- Have completed an undergraduate major in chemistry or biochemistry. If this criterion is not met, the student may be admitted, but additional course work will be required.
- Have a GPA of at least 3.0 in chemistry and related courses.
- Report GRE scores of the general (not subject) exams.
- Applicants are required to fill out the department application form. Department application procedures are described at www.chembiochem.sfsu.edu/graduate_app_proc (http://www.chembiochem.sfsu.edu/graduate_app_proc).
- Submit three letters of recommendation from individuals familiar with previous academic work and/or potential for graduate work in chemistry. These letters should be sent to the graduate advisor, Department of Chemistry and Biochemistry.

Written English Proficiency Requirement

Level One

Applicants are required to satisfy the entry-level written English proficiency requirement by a score of 4 or above on the GRE Analytical Writing section. Applicants who do not meet the GRE AWA score, but meet all other requirements, may be admitted on a conditional basis. The conditional status will be removed upon successful completion of a writing-based entrance exam. Admitted students who do not pass the writing-based entrance exam will take SCI 614 or an equivalent writing course by the end of the second semester.

Level Two

Students will demonstrate an advanced level of proficiency in written and spoken English by successfully completing CHEM 880, a thesis (CHEM 898) or written manuscript (CHEM 895), and an oral defense of the research project.

Advancement to Candidacy

In order to advance to candidacy, students must:

- Pass any three of the American Chemical Society (ACS) graduate entrance examinations: analytical, biochemistry, inorganic, organic, or physical chemistry. These examinations cover mainly undergraduate level material.
- Satisfy Level One of the written English proficiency requirement.
- Satisfy all course deficiencies stipulated upon entrance into the program.
- File an Advancement to Candidacy (ATC) form.

Note: After initiating a research project, a graduate student must enroll each semester in CHEM 897 while actively engaged in research for the M.S. degree. A maximum of 9 units of CHEM 897 may be included on the Advancement to Candidacy.

Chemistry (M.S.): Concentration Biochemistry – minimum 30 units

Program (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 834</td>
<td>Organic Spectroscopic Methods</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 880</td>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 850</td>
<td>Valency and Spectroscopy (select on advisement of advisor)</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 851</td>
<td>Biochemical Spectroscopy</td>
<td></td>
</tr>
</tbody>
</table>

Research Requirements (6 – 9 units)

Research project in biochemistry, bioorganic, bioanalytical, biophysical, bioinorganic, biomedical or biochemical education subdiscipline required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 897</td>
<td>Research</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Culminating Experience (3 units)

One of the following culminating experience courses selected with prior consultation with culminating experience committee:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 895</td>
<td>Research Project</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral Defense of Culminating Experience</td>
<td></td>
</tr>
</tbody>
</table>

Related Study (9 – 12 units)

Graduate courses in biochemistry, chemistry, physics, mathematics or biology on advisement of graduate major advisor. Upper division courses may be used with permission of graduate major advisor.

Master of Science in Chemistry

Admission to Program

Students must meet these criteria:

- Satisfy the University’s admission requirements.
- Have completed an undergraduate major in chemistry or biochemistry. If this criterion is not met, the student may be admitted, but additional course work will be required.
- Have a GPA of at least 3.0 in chemistry and related courses.
• Report GRE scores of the general (not subject) exams.
• Applicants are required to fill out the department application form. Department application procedures are described at www.chembiochem.sfsu.edu/graduate_app_proc (http://www.chembiochem.sfsu.edu/graduate_app_proc).
• Submit three letters of recommendation from individuals familiar with previous academic work and/or potential for graduate work in chemistry. These letters should be sent to the graduate advisor, Department of Chemistry and Biochemistry.

Written English Proficiency Requirement

Level One
Applicants are required to satisfy the entry-level written English proficiency requirement by a score of 4 or above on the GRE Analytical Writing section. Applicants who do not meet the GRE AWA score, but meet all other requirements, may be admitted on a conditional basis. The conditional status will be removed upon successful completion of a writing-based entrance exam. Admitted students who do not pass the writing-based entrance exam will take SCI 614 or an equivalent writing course by the end of the second semester.

Level Two
Students will demonstrate an advanced level of proficiency in written and spoken English by successfully completing CHEM 880, a thesis (CHEM 898) or written manuscript (CHEM 895), and an oral defense of the research project.

Advancement to Candidacy

In order to advance to candidacy, students must:

• Pass any three of the American Chemical Society (ACS) graduate entrance examinations: analytical, biochemistry, inorganic, organic, or physical chemistry. These examinations cover mainly undergraduate level material.
• Satisfy Level One of the written English proficiency requirement.
• Satisfy all course deficiencies stipulated upon entrance into the program.
• File an Advancement to Candidacy (ATC) form.

Note: After initiating a research project, a graduate student must enroll each semester in CHEM 897 while actively engaged in research for the M.S. degree. A maximum of 9 units of CHEM 897 may be included on the Advancement to Candidacy.

Chemistry (M.S.) – minimum 30 units

Program (9 units)

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>CHEM 834</td>
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<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 850</td>
<td>Valency and Spectroscopy (select on advisement of advisor)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or CHEM 851 Biochemical Spectroscopy</td>
<td></td>
</tr>
</tbody>
</table>

Research Requirements (6 – 9 units)

Research project in organic, analytical, physical, environmental, inorganic or chemical education subdiscipline required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 897</td>
<td>Research</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Culminating Experience (3 units)

One of the following culminating experience courses selected with prior consultation with culminating experience committee:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CHEM 895 Research Project</td>
<td></td>
</tr>
</tbody>
</table>

Oral Defense of Culminating Experience

Related Study (9 – 12 units)

Graduate courses in biochemistry, chemistry, physics, mathematics or biology on advisement of graduate major advisor. Upper division courses may be used with permission of graduate major advisor.
COMPUTER SCIENCE

College of Science and Engineering
Dean: Keith Bowman

Department of Computer Science
TH 906
Phone: (415) 338-1008
E-mail: csgrad@sfedu.edu
Website: http://cs.sfsu.edu

Chair: William Tsunyuk Hsu
Undergraduate Advisors: Dujmovic, Kulkami, Puder, Wong, Yang, Yue
Graduate Coordinators: Yang
Graduate Advisors: Okada, Yoon

Program Scope
The primary mission of the Department of Computer Science is to prepare students for careers as software professionals, and for graduate studies in Computer Science and related fields. The department offers a broad curriculum covering the major areas of the computing discipline, integrated with soft skills such as teamwork and written/oral communication; students also gain experience working on group projects. Students are exposed to the fundamentals of computing architecture and computing theory, and focus their studies on the areas of software and systems development. Faculty work directly with students to help them develop the skills and knowledge of computing professionals.

Department faculty are committed to teaching excellence. They remain current in the rapidly changing field of computing technology through continuing research and publications, direct consultation with local industries, and seminar programs that bring top researchers and industry leaders to campus to speak on current developments in the field. The Supervised Industrial Research Program, Practicum option, and other mechanisms provide opportunities for graduate students to complement their academic learning with real world experience.

The department has an additional commitment to sharing its knowledge and skills with the rest of the University community, with local schools, and with community-based organizations in the Bay Area.

The Bachelor of Science program stresses a basic foundation in mathematics and physics, and a thorough study of the fundamentals of the discipline: software development, computer architecture, operating systems, programming languages, algorithms, and the theoretical foundations of computer science. A wide variety of elective courses such as mobile development, web/internet applications, bioinformatics, database systems, artificial intelligence, computer graphics, game development, and software engineering allow students to specialize in selected areas. Ethical and social issues of computing are discussed throughout the curriculum. Senior courses include group projects to better prepare students for future job markets. Courses are updated or added regularly to provide necessary training in the latest software technologies.

The Master of Science in Computer Science prepares students for a wide variety of careers in computing or related industries as well as for advanced study toward Ph.D. degrees. Our program combines a solid and practical curriculum with high-quality research and project-based activities. In addition to a general core covering the breadth of

the computing discipline, students may focus on software engineering in globally distributed environments, computing applications for biotechnology and the life sciences, data mining/big data, and business applications.

Our faculty maintain active publication records, with significant funding from government agencies (NSF, NIH, Department of Labor, etc.) and industry (Genentech, Microsoft, IBM, Arista Networks, Mozilla, etc.). Students are actively involved in research projects, write papers, attend conferences, and participate in funding proposals. SF State’s Center for Computing for Life Sciences (http://cs.sfsu.edu/cclsl/index.html) and several specialized laboratories provide research and project focus, as well as opportunities to collaborate with faculty and students from other SF State departments and industry. A new Entrepreneurship Program and Developers Prize supports the development of student projects into business or non-profit ventures.

Computing Facilities

Central Facilities
- A network of Mac, Linux, and PC servers supported by SF State Information Technology Services
- A Linux server (unixlab) supported by SF State Information Technology Services, used for Computer Science classes
- Workstation labs in the SF State J. Paul Leonard Library and around campus

General Undergraduate Computing Facilities
- Intel servers (Windows and Linux)
- Workstation laboratories with Mac, Windows, and Linux desktops

Specialized Centers, Laboratories, and Computing Resources
- Center for Computing for Life Sciences (including Amazon cloud servers and 40-node DELL cluster)
- Multimedia and Visualization Laboratory
- Biocomputing and Media Research Group
- Biomedical Image and Data Analysis Lab
- Virtual Computing: VMware GSX Server, Microsoft VirtualPC Server
- High-Performance Computing server with NVIDIA Tesla and Titan GPUs

Career Alternatives
- Mobile application developer
- Web and internet application developer
- Game developer
- Bioinformatics Developer
- Data science/data mining developer
- Software Engineer
- Quality assurance engineer
- Manager of software development teams
- Systems programmer/administrator
- Computer network specialist
- System security and/or performance manager
- Application software designer
- Database designer/programmer/administrator
- Programmer in scientific or business applications
Professors
Dujmovic, Hsu, Levine, Petkovic, Puder, Singh, Wong, Yoon

Associate Professors
Okada, Yang

Assistant Professors
Kulkarni, Yue

Adjunct Professors
Buturovic, Lank

Lecturers
Baldwin, Hasan, Kriese, Pico, Rhodes, Roberts, Shaikh, Sladek, Souza, Tomasevich, Wall, Westerman

Major
• Bachelor of Science in Computer Science (p. 1130)

Minor
• Minor in Computer Science (p. 1138)

Masters
• Master of Science in Computer Science (p. 1138)

Bachelor of Science in Computer Science

Students intending to enter this program at the freshman level should have completed two years of algebra and one semester of trigonometry in high school. One year each of high school geometry and physics, as well as basic knowledge of computer organization and programming, are very desirable.

All lower division courses (course numbers below 300) included among the degree requirements are available at many community colleges in California; students intending to enter the program upon transferring to San Francisco State University from a community college should take as many of those courses there as possible.

Students should plan their program of study in the major with the help of a departmental advisor as soon as possible so that the correct sequence of courses is taken and a proper set of electives is chosen. It is also suggested that students consult with an advisor before selecting courses to meet the General Education requirements. (See program below for acceptable science electives.)

Students are encouraged to participate in the Computer Science Cooperative Education Program at SF State. Under this program, they may obtain industrial employment related to their academic studies. This combination of on-the-job training and academic experience can greatly enhance the value of an undergraduate degree in Computer Science.

An Endowed Scholarship Fund, established in the memory of Jules H. Strauss, offers an annual award to a computer science major who shows scholarly accomplishment and demonstrates financial need.

An Entrepreneurship Program and Developers Prize, funded by our alumni, encourage and support innovation and entrepreneurship among students.

Students are advised that CR/NC grades are not acceptable in courses to be counted for the Computer Science major or minor programs.

Computer Science (B.S.) — 71 units

Mathematics and Physics (22 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics with Calculus I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 232</td>
<td>General Physics with Calculus II Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Science Elective (3 units)

Science elective selected from the following GE Area B2, Life Science courses. Other science courses are subject to approval.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 176</td>
<td>Science and Politics of Stem Cell Biology</td>
<td></td>
</tr>
</tbody>
</table>

Core Computer Science Requirements (22 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 220</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 230</td>
<td>Discrete Mathematical Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 256</td>
<td>Machine Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 300GW</td>
<td>Ethics, Communication and Tools for Software Development - QWAR</td>
<td>3</td>
</tr>
<tr>
<td>CSC 340</td>
<td>Programming Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 412</td>
<td>Advanced Software Lab</td>
<td>1</td>
</tr>
<tr>
<td>CSC 413</td>
<td>Software Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Computer Science Requirements (24 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 415</td>
<td>Operating System Principles</td>
<td>3</td>
</tr>
<tr>
<td>CSC 510</td>
<td>Analysis of Algorithms I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 600</td>
<td>Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CSC 648</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Senior Presentations

Each major is required to make an oral presentation during his/her senior year. Guidelines for the presentations are available on the Computer Science website: cs.sfsu.edu (http://cs.sfsu.edu).

Electives

Select four 3-unit courses (12 units) See requirements below.

Elective Requirements

Electives are selected from the nine subareas of Computer Science listed below. Electives must meet the following requirements.

1. One of the electives must be CSC 520 or CSC 666. (CSC 520 and CSC 656 can be used to partially meet the depth and breadth requirements.)
2. **Depth Requirement:** two of the electives must be chosen from the same subarea of the discipline.
3. **Breadth Requirement:** electives must be chosen from three different subareas.

**Note:** It is recommended that students planning to continue their study of Computer Science in graduate school take both CSC 656 and CSC 520.

The same courses can be used to meet depth and breadth requirements. However, a course cannot be counted towards more than one area of emphasis. For example, the following four electives can be used to meet the requirements in different ways to highlight a different area of emphasis (areas of emphasis are shown in parentheses):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 520</td>
<td>Theory of Computing (Algorithms and Theory of Computing, Programming Languages)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 656</td>
<td>Computer Organization (Architecture)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 675</td>
<td>Introduction to Database Systems (Algorithms and Theory of Computing, Database)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 668</td>
<td>Advanced Object Oriented Software Design and Development (Programming Languages, Software Engineering)</td>
<td>3</td>
</tr>
</tbody>
</table>

The different ways in which these courses can meet the elective requirements are:

**Emphasis**

**Algorithms and Theory of Computing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 520</td>
<td>Theory of Computing (meets requirement 1)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 520 &amp; CSC 675</td>
<td>Theory of Computing and Introduction to Database Systems (meet requirement 2) (depth in Algorithms)</td>
<td>6</td>
</tr>
<tr>
<td>CSC 520</td>
<td>Theory of Computing (Algorithms) (meet requirement 3)</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 675</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 656</td>
<td>Computer Organization (Architecture) (meet requirement 3)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 668</td>
<td>Advanced Object Oriented Software Design and Development (Programming Languages or Software Engineering) (meet requirement 3)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emphasis**

**Programming Languages**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 520</td>
<td>Theory of Computing (meets requirement 1)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 520 &amp; CSC 675</td>
<td>Theory of Computing and Introduction to Database Systems (meet requirement 2) (depth in Algorithms)</td>
<td>6</td>
</tr>
<tr>
<td>CSC 520</td>
<td>Theory of Computing (Algorithms) (meet requirement 3)</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 675</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 656</td>
<td>Computer Organization (Architecture) (meet requirement 3)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 668</td>
<td>Advanced Object Oriented Software Design and Development (Programming Languages or Software Engineering) (meet requirement 3)</td>
<td>3</td>
</tr>
</tbody>
</table>

In contrast, for example, the following courses do not meet the elective requirements because CSC 520 cannot be double counted as Algorithms and Programming Languages:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 520</td>
<td>Theory of Computing (Algorithms and Theory of Computing, Programming Languages)</td>
<td></td>
</tr>
<tr>
<td>CSC 645</td>
<td>Computer Networks (Operating Systems and Distributed Processing)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 650</td>
<td>Secure Networked Systems (Operating Systems and Distributed Processing)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 651</td>
<td>System Administration (Operating Systems and Distributed Processing)</td>
<td>3</td>
</tr>
</tbody>
</table>

The courses listed below constitute a partial list of suitable courses for meeting the elective requirements. The department frequently offers, under the title of CSC 698, new courses that meet elective requirements. Many students also find that, by their senior year, they are prepared to undertake certain graduate courses in Computer Science. Occasionally, students in good academic standing may take CSC 699, instead of a regularly scheduled course. Students are advised to check university and college regulations regarding academic standing requirements. Finally, it is occasionally possible to use a course taken in a different department or at another university (but only if the course is not offered at San Francisco State University) to satisfy elective requirements. Any course substitutions must be approved in advance by a senior advisor.

**Areas of Special Emphasis**

**Algorithms and Theory of Computing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 520</td>
<td>Theory of Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSC 621</td>
<td>Biomedical Imaging &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 630</td>
<td>Computer Graphics Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>CSC 637</td>
<td>Software Techniques for Computer Music</td>
<td>3</td>
</tr>
<tr>
<td>CSC 671</td>
<td>Neural Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSC 675</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 400</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Architecture**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 641</td>
<td>Computer Performance Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CSC 656</td>
<td>Computer Organization</td>
<td>3</td>
</tr>
</tbody>
</table>

**Artificial Intelligence**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 620</td>
<td>Natural Language Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CSC 621</td>
<td>Biomedical Imaging &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 665</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CSC 671</td>
<td>Neural Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

**Database**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSC 664</td>
<td>Multimedia Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 675</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Graphics and Multimedia**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 621</td>
<td>Biomedical Imaging &amp; Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 630</td>
<td>Computer Graphics Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>CSC 631</td>
<td>Multiplayer Game Develop</td>
<td>3</td>
</tr>
<tr>
<td>CSC 637</td>
<td>Software Techniques for Computer Music</td>
<td>3</td>
</tr>
<tr>
<td>CSC 642</td>
<td>Human-Computer Interaction</td>
<td>3</td>
</tr>
<tr>
<td>CSC 664</td>
<td>Multimedia Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
**Numerical and Symbolic Computing**
MATH 400 Numerical Analysis 3

**Operating Systems and Distributed Processing**
CSC 615 UNIX Programming 3
CSC 641 Computer Performance Evaluation 3
CSC 645 Computer Networks 3
CSC 650 Secure Networked Systems 3
CSC 651 System Administration 3
CSC 667 Internet Application Design and Development 3

**Programming Languages**
CSC 520 Theory of Computing 3
CSC 620 Natural Language Technologies 3
CSC 665 Artificial Intelligence 3
CSC 668 Advanced Object Oriented Software Design and Development 3

**Software Engineering**
CSC 642 Human-Computer Interaction 3
CSC 667 Internet Application Design and Development 3
CSC 668 Advanced Object Oriented Software Design and Development 3

**General Education Requirements**
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SD State Studies**
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)

Environmental Sustainability (ES)

Global Perspectives (GP)

Social Justice (SJ)

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**
This roadmap opens in a new tab. (p. 1134)

**Transfer Student Roadmap (2 Year)**
For students with an AS-T in Computer Science. This roadmap opens in a new tab. (p. 1136)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Computer Science

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.
A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#A3EL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Science in Computer Science Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 71

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>BIOL 100 or BIOL 176</td>
<td>Human Biology or Science and Politics of Stem Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
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</tr>
<tr>
<td>PHYS 222</td>
<td>General Physics with Calculus I Laboratory</td>
<td>1</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>CSC 220</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 230</td>
<td>Discrete Mathematical Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 232</td>
<td>General Physics with Calculus II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 256</td>
<td>Machine Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 340</td>
<td>Programming Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 412</td>
<td>Advanced Software Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>13</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>CSC 300GW</td>
<td>Ethics, Communication and Tools for Software Development - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CSC 413</td>
<td>Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CSC 510</td>
<td>Analysis of Algorithms I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)            </td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 415</td>
<td>Operating System Principles</td>
<td>3</td>
</tr>
</tbody>
</table>
### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 520 or CSC 656</td>
<td>Theory of Computing or Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 600</td>
<td>Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (12 Units Total) – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Total Units: 120**

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GR ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. CSC 648 serves as the major capstone course.
# Bachelor of Science in Computer Science – COMP Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Computer Science. 28 units in the major (MATH 226, MATH 227, PHYS 220/PHYS 222, PHYS 230/PHYS 232, CSC 210, CSC 220, CSC 230, CSC 256) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 100</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 176</td>
<td>or Science and Politics of Stem Cell Biology</td>
<td></td>
</tr>
<tr>
<td>or University Elective if Science Elective met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 340</td>
<td>Programming Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 412</td>
<td>Advanced Software Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 300GW</td>
<td>Ethics, Communication and Tools for Software Development - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CSC 413</td>
<td>Software Development</td>
<td>3</td>
</tr>
<tr>
<td>CSC 415</td>
<td>Operating System Principles</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 471</td>
<td>or The U.S. Constitution since 1877</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 510</td>
<td>Analysis of Algorithms I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 520</td>
<td>Theory of Computing</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 656</td>
<td>or Computer Organization</td>
<td></td>
</tr>
<tr>
<td>CSC 600</td>
<td>Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 648</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. AS-T students should try to meet this requirement before transfer within GE (CSU Breadth: B2 or IGETC: 5B). Doing so will provide more enrollment flexibility after transfer.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–12 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- Upper Division GE, areas B, C, D (9 units): Recommended courses for UD-C also satisfy the US History, US Government, and California State and Local Government requirements if not taken before transfer. See notes.
- Students entering the major with the AS-T in Computer Science are not required to fulfill SF State Studies and Complementary Studies requirements.

Computer Science Major: 40–43 Units


- Science elective: 0–3 units (BIOL 100 or BIOL 176) if not completed before transfer
- Mathematics: 6 units
- Core/GWAR: 10 units
- Advanced CSC requirements: 24 units, including electives. Electives must include CSC 520 or CSC 656; are selected from nine subareas of Computer Science; and must meet specific Depth and Breadth requirements.
- Senior Presentation: required oral presentation during senior year (0 units)

University Electives: Five or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and in the major.
Minor in Computer Science

Many university students want to acquire sufficient computer science background to enable them to use computers effectively in their major areas, or to provide an alternative source of income after graduation, but do not want to study computer science in the depth required for the B.S. degree. For such students, a minor consisting of the most central courses in the B.S. program, plus some electives, is ideal. Students are advised that CR/NC grades are not acceptable in courses to be counted for the Computer Science Minor.

The Minor in Computer Science has 15 units of prerequisites that are not included in the 21 units as indicated for the minor below. Please review course descriptions for prerequisite courses and consult with a computer science department advisor for further information.

Computer Science Minor — 21 units

Program Requirements (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 220</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 256</td>
<td>Machine Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 340</td>
<td>Programming Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CSC 413</td>
<td>Software Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6 units)

Upper division computer related electives by approval of the minor advisor.

Master of Science in Computer Science

Program Description

All students share breadth requirements in the areas of computing foundations, computer systems, and software development. Students focusing on different areas then differ in the choice of courses that provide depth in the chosen area and in the work done for the culminating experience. Students are expected to decide on a focus area prior to enrollment in the second semester. Integrated into the curriculum are significant team and project experiences. There are two options for the mandatory culminating experience, the master’s thesis or the applied research project.

The grading method CR/NC is allowed only for CSC 895 or CSC 898. All other courses listed on the Advancement to Candidacy (ATC) form must be a letter grade.

Elective Requirements

All students are required to include elective credits in their program. Electives include:

- All upper division or graduate courses offered by the Computer Science Department, including breadth requirement courses and CSC 897 and CSC 899. CSC 893 may not count as an elective course.
- Courses from other programs such as biology, engineering, business, or mathematics may be accepted with the approval of the graduate advisor and culminating experience supervisor.

Note: A maximum of 6 units of upper division courses (numbered below 700) may be applied to the degree with the consent of the course instructor and graduate advisor.

Graduate Seminar Requirement

In addition to curricular requirements, prior to enrolling in CSC 895/CSC 898, all graduate students are required to attend the Department Graduate Seminar series during one semester of their studies. These weekly seminars explore current topics in computer science research and assist students with choosing a topic for the culminating experience. Details for meeting this requirement may be found in the Graduate Studies Policy section (p. 120).

Practicum

This 1-3 unit option is chosen by students who wish to enhance their master’s degree by completing an industrial practicum. After finding the job in the local industry, the student will submit a research proposal to the department’s supervisor (normally the department chair) that describes the expected work and learning outcome. The department’s supervisor must approve the proposal before the student begins the research. Once approved, the student will enroll in 1 unit of CSC 893. At the conclusion of the work experience, the student must file a written report outlining the research and work experience. The report is submitted to the department’s supervisor. Students may repeat CSC 893 for a maximum of 3 units. The total number of units for the degree for students who complete the CSC 893 practicum option will be 33 units. It is recommended that this option be pursued only during the summer.

Note: CSC 893 allows international students to obtain permission to work off campus for the duration of the course.

Admission to Program

Admission to the graduate program in computer science is a two-step process that should be completed simultaneously.

1. Apply to San Francisco State University: Complete the on-line CSU Mentor application. Follow all other requirements for admission to the University by accessing www.sfsu.edu/~gradstdy/ (http://www.sfsu.edu/~gradstdy).

2. Apply to the Department of Computer Science graduate program: Full details can be found at http://cs.sfsu.edu/grad/GradApply.html.

We encourage students with four-year degrees other than Computer Science to apply to our program as conditional applicants. Please check the link in Step 2 above for details.

Financial Assistance

Graduate assistantships are occasionally available for qualified master’s students. These opportunities include participating in funded research projects, assisting with management of departmental and university computer laboratories as well as lecturer positions for beginning undergraduate computer science courses. Frequently, there are internship opportunities available for work at local companies. International students should address all questions related to their visa status and eligibility for practical training (off-campus work) to the Office of International Programs (p. 183).
Written English Proficiency Requirement

Level One
Computer science students admitted to the M.S. program are required to satisfy English Level One prior to the end of their first year of study at SF State. Level One is satisfied by obtaining either a score of 4 or better on the GRE Analytical Writing Exam or a passing grade in SCI 614. SCI 614 is strongly recommended for all students who wish to develop their skills in professional writing.

Level Two
The second level of proficiency in written English must be demonstrated before graduation. At this time, the student must demonstrate writing skills which exemplify scholarly style in computer science. This is demonstrated by the master’s thesis or the research project report.

Policy on Enrollment While Conducting Directed Research
Pursuant to Policy F89-165 adopted by the Academic Senate in 1989, the Computer Science Department has adopted the policy that all graduate students who are working with a research advisor (above and beyond general advising during office hours) and/or having his/her thesis or project reviewed, must enroll in at least one unit of CSC 895, CSC 897, CSC 898, or CSC 899. Registered students will have priority for departmental computing resources.

Computer Science (M.S.) – 30 – 33 units

Core Requirements (9 units)

Computing Foundations (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 810</td>
<td>Analysis of Algorithms II (and Oral Project Presentation)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 825</td>
<td>Advanced Automata Theory (and Oral Defense of Thesis)</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Systems (3 units)
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 720</td>
<td>Advanced Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 835</td>
<td>Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 846</td>
<td>Systems Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSC 746</td>
<td>High-Performance Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

Software Development (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 848</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 868</td>
<td>Advanced Object Oriented Software Design and Development</td>
<td></td>
</tr>
</tbody>
</table>

Program – 21 – 24 units

General Requirement (9 units)
Three 3 unit courses drawn from 700–800 level Computer Science courses. 700–800 courses paired with 600 courses require advisor’s approval. CSC 899 may not count towards this requirement.

Electives (6 units)
Two upper-division/graduate 3 unit electives selected on advisement.

Practicum Option (3 units)
Up to 3 units of CSC 893 (on advisement)

Culminating Experience (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 897</td>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 899</td>
<td>Independent Study</td>
<td></td>
</tr>
</tbody>
</table>
COOPERATIVE EDUCATION

College of Science and Engineering
Dean: Keith Bowman

Cooperative Education Program
SCI 248
(415) 338–1050
Director: Lannie Nguyen-Tang

The Cooperative Education Program enables students of all majors within the University to integrate academe with real world problems through alternating academically relevant work experiences with class studies. Cooperative positions are arranged with the help of the program director and supervised by both the immediate work supervisor and a faculty coordinator from the students, area of academic interest. Participation in the Cooperative Education Program expands and enhances career opportunities through experience gained with employers and often helps focus academic objectives. Students receive competitive wages and earn academic credit while involved in their field assignments. Employment periods may be either full- or part-time. Participants begin the program by completing the preparatory Cooperative Education Colloquium course. Additional information may be obtained from the Cooperative Education Office.

Program Scope
This supplemental 25-unit certificate program is designed to give students the opportunity to develop educational objectives and career opportunities. Enrollment in the cooperative education colloquium course is a requirement for all students and is used as the basis for evaluation of student potential and interest. The certificate indicates to the employer that the University validates the student's work experience in cooperative education and substantiates the experience as professional development and job training. Students receive academic credit and salaried compensation.

All placements are academically relevant. Since the certificate program is tailored to the student's needs and specific major, information about various degrees and programs offered may be found under the appropriate department or center.

Career Outlook
Students who complete the certificate program typically have greater employment options and benefits. Additional benefits include better starting salaries and greater responsibilities for starting level positions. Cooperative education placements usually lead to permanent job placements with private and public sector employers.

Cooperative Education Certificate – 25 Units

Admission Requirements
To be admitted to the program students must comply with all criteria as outlined in the description of certificate programs of this University Bulletin. Additionally, students must:

• Be a resident student at the University
• Maintain at least a 2.5 GPA in all course work within the student's major course of study.
• Complete the prerequisite course, Cooperative Education Colloquium.

• Be of upper division standing (completed 56 semester units of undergraduate work)

Course credits are to be assigned through SCI 693. Accumulated units do not count toward general education or major curricular requirements. Full-time summer placements are available and may earn six units of credit. Two major academic year placement options exist and are illustrated below.

Prerequisite (1 unit)
SCI 693 Cooperative Education Program 1

Required Course (24 units)

Plan A: Parallel Pattern
Part-Time (to be taken over four semesters, 6 units per semester)
SCI 693 Cooperative Education Program 24

Plan B: Alternating Pattern
Full-Time (to be taken over two semesters, 12 units per semester)
SCI 693 Cooperative Education Program 24

1140
EARTH & CLIMATE SCIENCES

College of Science and Engineering
Dean: Keith Bowman

Department of Earth & Climate Sciences
509 Thornton Hall
Phone: (415) 338–2061
Fax: (415) 338–7705
Chair: Dave Dempsey
Graduate Coordinator: Petra Dekens
Teaching Credential Advisor: Dave Dempsey

Affiliations
The Department of Earth & Climate Sciences is a University Corporation for Atmospheric Research (UCAR) affiliate.

Program Scope
The Department of Earth & Climate Sciences offers two undergraduate degree programs and a minor program spanning the Earth sciences, including geology, hydrology, oceanography, meteorology, and climate science, and a graduate program leading to a Master of Science in Geosciences. All programs aim to help students understand how planet Earth functions and to help them develop skills that enable them to critically evaluate and solve scientific problems related to Earth and environmental issues.

The Bachelor of Science in Earth Sciences provides students with a foundation in mathematics, physics, and chemistry; a broad background in the Earth Sciences; an understanding of how Earth’s systems are linked; depth of knowledge in one of three areas of Earth sciences; and strong quantitative, communication, and field skills. The B.S. degree is excellent preparation for professional employment and/or graduate study in one of the Earth sciences. Students in the B.S. take a common core of classes and choose one of three areas of emphasis, where they get in-depth training in an area of specialization: Geology; Hydrology; or Ocean, Weather, and Climate. The Geology emphasis provides fundamental skills and knowledge applied to understand processes in the solid Earth, and extensive experience conducting investigations in the field (that is, outdoors). The Hydrology emphasis draws from a broader range of Earth sciences to understand and solve environmental problems of water in Earth’s systems and provides extensive hands-on lab and field work. In the Ocean, Weather, and Climate emphasis, students learn to describe the structure and behavior of the oceans and atmosphere and to apply concepts of mathematics, physics, and chemistry to understand and solve problems about how physical processes in the ocean and atmosphere create weather and climate and how climate can change.

The Bachelor of Arts in Earth Sciences program provides a flexible, integrated framework within which students can prepare to teach Earth Sciences in K–12 schools or for careers in museums, parks, governmental or private non-profit environmental or planning agencies, and other organizations where a broad knowledge of Earth sciences would be valued. The Minor in Earth Sciences provides a flexible opportunity to complement a wide variety of other majors.

The Master of Science in Geosciences provides advanced coursework in the geosciences, including an in-depth research investigation. Students choose an area of specialization and a thesis topic that they work on in close collaboration with a faculty advisor.

Career Outlook
Earth science investigations lead to better understanding of fundamental Earth processes and help solve problems arising from environmental contamination or mismanagement; natural hazards such as earthquakes, volcanic eruptions, severe storms, and global change; demand for new sources of useful Earth materials; and many others. Earth scientists use sophisticated instrumentation to collect and analyze data, and recent advances have provided new views of Earth, from the internal layers of the solid earth, from the ocean floor, and from both the lower and upper atmosphere, which are leading to improved understanding of our planet. Increasingly scarce energy, mineral, and water resources, and increasing environmental impacts of human activities (both global and local), present challenges that create demand for Earth science expertise. Because of increased demand and projected retirements, a shortage of geoscientists is projected in the near future.

Graduates in Earth Sciences may pursue a wide range of careers in the Earth sciences and related fields. For the next decade, geologists will find the greatest opportunities in the broad areas of environmental and engineering geology; for example, surface and groundwater hydrology studies aimed at characterizing water resources and remediating toxic sites, assessing earthquake and landslide hazards, developing restoration plans for river and coastal environments, and evaluating sites for urban planning or construction. There are also many positions available in the petroleum and mineral exploration industries. A shortage of certified high school and middle school science teachers has placed qualified teachers in high demand. Ocean, weather & climate students will find opportunities in air pollution assessment, global climate change research, and climate change risk assessment, adaptation, and mitigation, with government agencies that work on climate change and coastal management, or consulting firms specializing in coastal dynamics, ocean observations, and alternative energy, for example. Recent job trends suggest that the strongest candidates, regardless of the area of specialization, will have a master’s degree, several years of experience, and an interdisciplinary background with strong chemistry, physics, mathematics, computer, and communication and collaboration skills. Earth scientists in the San Francisco Bay Area are employed by a relatively high concentration of government agencies, academic institutions, and private firms. In addition to preparing students for advanced work as professionals, the M.S. in Geosciences is an excellent preparation for a community college or high school teaching career or for entry into a doctoral program leading to a career in university teaching and/or research.

The increased emphasis on science in high schools and the new California mandate for earth science education in the elementary science curriculum provide many opportunities for teachers trained in the Earth Sciences.

Advising
The department requires that declared majors consult with an advisor every semester, and prospective majors should consult with an advisor as early as possible, particularly about selecting courses in the General Education program that best fit the major program. Students will also be advised about completing basic science requirements before taking upper division courses in Earth Sciences, and about the order in which required courses should best be taken. Students interested in preparing to teach high school or middle school earth sciences and integrated science should consult the department’s teaching credential advisor.
Every course counted toward major requirements must be completed with a letter grade (CR/NC is not acceptable). No more than one course counted toward major requirements may be completed with a grade less than a C-. Course work used to satisfy major requirements must be completed with an overall point average of 2.0 or higher.

**Professors**
Dempsey, Garcia, Monteverdi, Mustart, Sklar

**Associate Professors**
Caskey, Dekens, Gurdak, Leech

**Assistant Professors**
Ibarra, Mazzi, Stine

**Adjunct Professor**
Siegel

**Majors**
- Bachelor of Arts in Earth Sciences (p. 1142)
- Bachelor of Science in Earth Sciences (p. 1149)

**Minor**
- Minor in Earth Sciences (p. 1164)

**Certificate**
- Certificate in Weather Study (p. 1164)

**Masters**
- Master of Science in Geosciences (p. 1164)

**Bachelor of Arts in Earth Sciences**
The Bachelor of Arts in Earth Sciences program builds a solid conceptual foundation of basic physical sciences, mathematics, and Earth sciences. Students integrate knowledge of these separate disciplines in ways needed to understand and help solve important interdisciplinary problems, such as slowing and adapting to climate change and managing conflicting demands that humans make on the natural environment. It also prepares students to advise and educate others about issues requiring knowledge of how the Earth works.

Beyond the basic foundation, students have great flexibility to adapt the program to satisfy many possible interests in the Earth Sciences and prepare for a variety of careers.

Some career possibilities include:
- High school and middle school science teaching.
- Technical support for firms engaged in environmental engineering, environmental monitoring and protection, natural resource analysis and management, hazardous materials and ecological remediation, computer mapping, etc.
- Technical support to city, county, state, and other governmental agencies charged with land use and other planning.
- Preparation for graduate education in such fields as resource management, environmental public policy, and environmental law.
- Science writing, editing, and librarianship.

- Interpretation for park systems, nature centers, museums, and other areas requiring natural science field skills and natural history communication skills.

Prospective majors are encouraged to consult with a departmental advisor to learn about graduation requirements and to plan a program adapted to their particular interests. Students interested in preparing to teach high school or middle school earth sciences and integrated science should consult with the geosciences single-subject subject-matter advisor.

**Earth Sciences (B.A.) — 49–50 Units**

**Basic Science and Math Foundation (15–16 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I (upon advisement)</td>
<td>3-4</td>
</tr>
<tr>
<td>or ERTH 505</td>
<td>Quantitative Methods in Earth Sciences</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>General Physics I Laboratory</td>
<td></td>
</tr>
<tr>
<td>or PHYS 220</td>
<td>General Physics with Calculus I</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 222</td>
<td>General Physics with Calculus I Laboratory</td>
<td></td>
</tr>
<tr>
<td>Chemistry, physics, or mathematics elective (may not be a course designed primarily to satisfy a General Education requirement.)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Earth Sciences Foundation (11 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 500</td>
<td>Earth Systems II</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 600GW</td>
<td>Earth’s Climate History - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

**Earth Sciences Electives (19 Units)**

- Select at least 19 units of Earth & Climate Sciences (ERTH) or closely related course work with a coherent theme approved by a Department of Earth & Climate Sciences advisor.
- At least 15 elective units must come from upper-division course work. At least 11 elective units must come from ERTH courses.
- No more than four of the 19 elective units can come from courses designed primarily to satisfy General Education requirements (such as 100 and 300 level ERTH courses).

**Culminating Experience (4 Units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 652</td>
<td>Geoscience Partners in K-12 Education</td>
<td>4</td>
</tr>
<tr>
<td>or ERTH 690 &amp; ERTH 695</td>
<td>Earth Sciences Capstone Presentation and Senior Project</td>
<td></td>
</tr>
</tbody>
</table>

**Complementary Studies**
The B.A. in Earth Sciences automatically satisfies the Complementary Studies requirement with 12 units from the Basic Science and Math Foundation:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td></td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I and General Physics I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
MATH 226 Calculus I (or a chemistry, physics, or math elective (3 units))

Students in all Bachelor of Arts programs at SF State must complete at least twelve units of complementary studies, comprising coursework with a prefix outside of the primary prefix for the major. (For the B.A. program in Earth Sciences, that prefix is ERTH.) Students who complete the Earth Sciences B.A. program will have met the Complementary Studies requirement automatically by completing the mathematics, physics, and chemistry coursework required for the degree.

Transfer students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill Complementary Studies requirements for their major only if these courses are included in the minimum units required for the major.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities:</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: Literature</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) LD or UD 3
Environmental Sustainability (ES) LD or UD 3
Global Perspectives (GP) LD or UD 3
Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**
This roadmap opens in a new tab. (p. 1145)

**Transfer Student Roadmap (2 Year)**
For students with an AS-T in Geology. This roadmap opens in a new tab. (p. 1147)

**This degree program is an approved pathway (“similar” major) for students earning the ADT in Geology**

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

1143
Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Earth Sciences Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 49

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>14-15</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I or Quantitative Methods in Earth Sciences</td>
<td>3-4</td>
</tr>
<tr>
<td>or ERTH 505</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science and Math Foundation: Chemistry, physics, or mathematics elective (may not be a course designed primarily to satisfy a General Education requirement)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112 or PHYS 220 and PHYS 222</td>
<td>General Physics I or General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective — See Note — Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 600GW</td>
<td>Earth’s Climate History - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

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1. Refer to the most recent catalog for any changes or updates.
3. Electives (must be upper division).
### Eighth Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Eighth Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ERTH 500</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective – Take Two ⁴</td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>16</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>120-122</td>
</tr>
</tbody>
</table>

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1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**
   Students in all Bachelor of Arts programs at SF State must complete at least twelve units of complementary studies, comprising coursework with a prefix outside of the primary prefix for the major. (For the B.A. program in Earth Sciences, that prefix is ERTH.) Students who complete the Earth Sciences BA program will have met the Complementary Studies requirement automatically by completing the mathematics, physics, and chemistry coursework required for the degree.
   Transfer students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill Complementary Studies requirements for their major only if these courses are included in the minimum units required for the major.

4. **Major Elective**
   Select at least 19 units of Earth & Climate Sciences (ERTH) or closely related coursework, with a coherent theme approved by a Department of Earth & Climate Sciences advisor. At least 15 elective units must come from upper-division courses. At least 11 elective units must come from ERTH courses. No more than 4 of the 19 elective units can come from courses designed primarily to satisfy General Education requirements (such as 100 and 300 level ERTH courses).
Bachelor of Arts in Earth Sciences – GEOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Geology. Sixteen units in the major (CHEM 115, MATH 226, ERTH 210, and three additional lower division units in chemistry or calculus) and all lower division GE requirements have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112 or PHYS 220 and PHYS 222</td>
<td>General Physics I or General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ERTH 500</td>
<td>Earth Systems II</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 600GW</td>
<td>Earth's Climate History - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Earth Sciences Elective – See List ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BIOL 652</td>
<td>Science Education Partners in Biology</td>
<td>4</td>
</tr>
<tr>
<td>Earth Sciences Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ERTH 690 &amp; ERTH 695</td>
<td>Earth Sciences Capstone Presentation and Senior Project</td>
<td>2-4</td>
</tr>
<tr>
<td>Or Earth Sciences Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth Sciences Electives</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ Earth Sciences Elective — these ERTH courses also satisfy UD-B. If other ERTH course selected, replace University elective with UD-B course.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
• American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
• Upper division GE, areas B, C and D (9 units): One ERTH elective course may double-count for UD-B. See notes.
• Students entering this major with the AS-T in Geology are not required to fulfill SF State Studies requirements.
• B.A. Earth Sciences students satisfy the Complementary Studies requirement by completion of the Basic Science and Math Foundation.

**Earth Sciences Major: 34 Units**

• Basic Science and Math Foundation (4 units): PHYS 111/PHYS 112 or PHYS 220/PHYS 222. If PHYS completed before transfer, consult with major advisor about appropriate course choices. (Units from the ADT applied for CHEM 115 and MATH 226, plus three additional units in CHEM or CALC.)

• Earth Sciences Foundation (11 units)

• Earth Sciences Electives (15 units): Must be upper division courses organized around a coherent theme approved by an advisor. (Four units for ERTH 210 from ADT applied here.)

• Culminating experience (4 units): Students may choose from BIOL 652 OR ERTH 690 and ERTH 695

**University Electives: Eight or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.

**Earth Sciences Elective**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 310</td>
<td>The Violent Earth</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 325</td>
<td>Geology of the National Parks</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 330</td>
<td>California Water</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 335</td>
<td>Global Warming</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 360</td>
<td>California Weather Events</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 365</td>
<td>Extreme Weather in a Warming World</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Earth Sciences

The Bachelor of Science in Earth Sciences is designed for students intending to prepare for direct entry into a career as a professional in industry or government, or for graduate school in any of the Earth sciences, such as geology, oceanography, and meteorology. Courses in the BS degree's Earth Sciences Core, supported by courses in the Basic Science and Math Foundation, give students a strong understanding of the structure and behavior of Earth's systems (geosphere, hydrosphere, atmosphere, and biosphere) and the physical process through which they interact. The Earth Sciences Core courses teach not only interdisciplinary science concepts but also skills in quantitative problem solving, field work, and writing and oral communication, which are directly applicable to both graduate school and a career.

Students will develop disciplinary depth by selecting one of the three emphases: Geology, Hydrology, or Oceans, Weather & Climate.

Earth Science (B.S.) – 69–70 units

Basic Science and Math Foundation (17 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
<td></td>
</tr>
<tr>
<td>or PHYS 220</td>
<td>General Physics with Calculus I</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 122</td>
<td>and General Physics II Laboratory</td>
<td></td>
</tr>
<tr>
<td>or PHYS 240</td>
<td>General Physics with Calculus III</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Earth Sciences Core (14 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 500</td>
<td>Earth Systems II</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 505</td>
<td>Quantitative Methods in Earth Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 600GW</td>
<td>Earth's Climate History - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience (4–5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 690</td>
<td>Earth Sciences Capstone Presentation</td>
<td>1</td>
</tr>
<tr>
<td>and one of the following options:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 695</td>
<td>Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>or an honors thesis consisting of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 697</td>
<td>Undergraduate Research</td>
<td>4</td>
</tr>
<tr>
<td>&amp; ERTH 698</td>
<td>and Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>or (for Geology emphasis and Hydrology emphasis only):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Field Geology or equivalent (at another institution) | | 4

Emphasis (34 units)

Students must select one of the following emphases

Geology Emphasis

The Geology emphasis provides students with an in-depth understanding of the solid Earth and process that shape it and skills to conduct field investigations of geologic problems. Students who complete these emphasis requirements will be prepared for graduate school in geology or to enter the workforce directly as a professional geologist. The coursework prepares students to pass the Association of State Board Geology (ASBOG) exam to be a licensed professional geologist.

**Required Courses (22–23 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 210</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 420</td>
<td>Mineralogy and Petrology I</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 510</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 515</td>
<td>Sedimentology and Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 620</td>
<td>Field Methods in Geology</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 522</td>
<td>Geochemistry</td>
<td>4-5</td>
</tr>
<tr>
<td>or CHEM 215</td>
<td>General Chemistry II: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 216</td>
<td>and General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td></td>
</tr>
</tbody>
</table>

Electives (11–12 units)

Select (upon advisement) additional Geology emphasis electives needed to reach 34 units.

Hydrology Emphasis

The Hydrology emphasis provides students with in-depth understanding of the behavior of water on and beneath Earth's surface, how water shapes the solid earth, and environmental problems associated with water. Students who complete these emphasis requirements will be prepared for graduate school in hydrology or to enter the workforce directly as a professional hydrologist.

**Requirements (21–22 units)**

Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 210</td>
<td>Physical Geology</td>
<td></td>
</tr>
<tr>
<td>ERTH 230</td>
<td>Environmental Geology</td>
<td></td>
</tr>
<tr>
<td>ERTH 330</td>
<td>California Water</td>
<td></td>
</tr>
<tr>
<td>ERTH 430</td>
<td>Fluid Dynamics in Earth Systems</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 425</td>
<td>Geomorphology</td>
<td></td>
</tr>
<tr>
<td>ERTH 442/</td>
<td>Surface Water Hydrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 342</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 444</td>
<td>Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 544</td>
<td>Groundwater Contamination</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12–13 units)

Select (upon advisement) additional Hydrology emphasis electives needed to reach 34 units. (May include courses from the list above not selected to meet emphasis requirements.)

Ocean, Weather & Climate Emphasis (34 units)

The Ocean, Weather & Climate emphasis provides students with an understanding of the structure and behavior of oceans, the atmosphere, and climate, and the physical processes that shape and change them. Students who complete these emphasis requirements will be prepared for graduate school work in Earth sciences disciplines such as oceanography, meteorology, or climate science, or to enter the workforce directly.

**Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 260</td>
<td>Physical Processes in the Atmosphere</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 335</td>
<td>Global Warming</td>
<td></td>
</tr>
<tr>
<td>or ERTH 360</td>
<td>California Weather Events</td>
<td></td>
</tr>
</tbody>
</table>

1149
or ERTH 365 Extreme Weather in a Warming World
ERTH 430 Fluid Dynamics in Earth Systems
ERTH 434 Coastal Processes
ERTH 465 Weather Analysis and Forecasting I
ERTH 470 Physical Oceanography
ERTH 535 Planetary Climate Change
MATH 227 Calculus II

Electives
Select (upon advisement) additional Ocean, Weather, and Climate emphasis electives needed to reach 34 units. (May include courses from the list above not selected to meet emphasis requirements.)

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Govenment</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Environmental Sustainability (ES) LD or UD 3
Global Perspectives (GP) LD or UD 3
Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This Geology Emphasis roadmap opens in a new tab. (p. 1152)
This Hydrology Emphasis roadmap opens in a new tab. (p. 1154)
This Ocean, Weather & Climate roadmap opens in a new tab. (p. 1156)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Geology. This Geology Emphasis roadmap opens in a new tab. (p. 1158)
For students with an AS-T in Geology. This Hydrology Emphasis roadmap opens in a new tab. (p. 1160)
For students with an AS-T in Geology. This Ocean, Weather & Climate roadmap opens in a new tab. (p. 1162)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Geology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Science in Earth Sciences: Geology Emphasis Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 67

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>ERTH 210</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II (if completing PYS 220/222)</td>
<td>4</td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 220 and PHYS 222</td>
<td>or General Physics with Calculus I</td>
<td></td>
</tr>
<tr>
<td>or General Physics with Calculus I Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>PHYS 121 &amp; PHYS 122</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 240 and PHYS 242</td>
<td>or General Physics with Calculus III</td>
<td></td>
</tr>
<tr>
<td>or General Physics with Calculus III Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 420</td>
<td>Mineralogy and Petrology I</td>
<td>4</td>
</tr>
<tr>
<td>Major Emphasis Elective (11–12 units total): Select additional Geology emphasis electives upon advisement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>ERTH 500</td>
<td>Earth Systems II</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 505</td>
<td>Quantitative Methods in Earth Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>
**Bachelor of Science in Earth Sciences: Geology Emphasis Roadmap**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 522</td>
<td>or CHEM 215 and CHEM 216</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Geochemistry or General Chemistry II: Quantitative Applications of Chemistry Concepts and General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts</td>
<td>4-5</td>
</tr>
<tr>
<td>ERTH 600GW</td>
<td>Earth's Climate History - GWAR</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>13-14</td>
</tr>
</tbody>
</table>

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 510</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 515</td>
<td>Sedimentology and Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>Major Emphasis Elective (11–12 units total): Select additional Geology emphasis electives upon advisement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 620</td>
<td>Field Methods in Geology</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 690 &amp; ERTH 695 or ERTH 697 and ERTH 698</td>
<td>Earth Sciences Capstone Presentation or Undergraduate Research and Senior Thesis</td>
<td>3-4</td>
</tr>
<tr>
<td>Major Emphasis Elective (11–12 units total): Select additional Geology emphasis electives upon advisement – Take Two</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14-15</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
Bachelor of Science in Earth Sciences: Hydrology Emphasis Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 68

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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</tr>
<tr>
<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or SF State Studies or University Elective if CHEM 115 prerequisites are already satisfied</td>
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<tr>
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<tr>
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<td>MATH 226</td>
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<tr>
<td>or PHYS 220 and PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
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<td>PHYS 121</td>
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<td>or PHYS 240 and PHYS 242</td>
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<tr>
<td>ERTH 210</td>
<td>Physical Geology</td>
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<td>ERTH 230</td>
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<td>ERTH 330</td>
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<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
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<td>ERTH 430</td>
<td>Fluid Dynamics in Earth Systems</td>
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<td>Course</td>
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<td>ERTH 600GW</td>
<td>Earth’s Climate History - GWAR</td>
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<tr>
<td>ERTH 442</td>
<td>Surface Water Hydrology</td>
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<td>ERTH 444</td>
<td>Hydrogeology</td>
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<td>ERTH 500</td>
<td>Earth Systems II</td>
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<td>ERTH 505</td>
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<th>Eighth Semester</th>
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<tr>
<td>ERTH 544</td>
<td>Groundwater Contamination</td>
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</table>

1 To avoid taking additional units, it is recommended that you meet LLD and SFSU Studies requirements (AERM, GR ES, SJ) within your GE or major
2 ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP, you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses
# Bachelor of Science in Earth Sciences: Ocean, Weather & Climate Emphasis Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 68

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<td>CHEM 100</td>
<td>Preparation for Chemistry</td>
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<td>MATH 199</td>
<td>Pre-Calculus</td>
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<td>GE Area A: Written English Communication (A2) (^2)</td>
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<td><strong>Second Semester</strong></td>
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<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
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<td>MATH 226</td>
<td>Calculus I</td>
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<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
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<td>&amp; PHYS 112</td>
<td>or General Physics with Calculus I</td>
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<tr>
<td>or PHYS 220 and PHYS 222</td>
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<td>GE Area B: Life Science (B2)</td>
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<td>GE Area C: Arts (C1)</td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<td>ERTH 260</td>
<td>Physical Processes in the Atmosphere</td>
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<td>PHYS 121</td>
<td>General Physics II</td>
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<td>or PHYS 240 and PHYS 242</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
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<td>Major Emphasis – Take Two (^3)</td>
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<td>GE Area UD−B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td><strong>Sixth Semester</strong></td>
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<td>15-17</td>
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<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
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<tr>
<td>ERTH 600GW</td>
<td>Earth’s Climate History - GWAR</td>
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Major Emphasis Elective – Take Two  
GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)  
SF State Studies or University Elective  

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**Seventh Semester**

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<td>ERTH 505</td>
<td>Quantitative Methods in Earth Sciences</td>
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<tr>
<td>Major Emphasis – Take Two</td>
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<td>6-8</td>
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<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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**Eighth Semester**

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Total Units: 120-125

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Major Emphasis Courses**
   Select five of the following:
   - ERTH 335 Global Warming (3 units)
   - or ERTH 360 California Weather Events (3 units)
   - or ERTH 365 Extreme Weather in a Warming World (3 units)
   - ERTH 430 Fluid Dynamics in Earth Systems (3 units)
   - ERTH 434 Coastal Processes (3 units)
   - ERTH 465 Weather Analysis and Forecasting I (4 units)
   - ERTH 470 Physical Oceanography (4 units)
   - ERTH 535 Planetary Climate Change (4 units)
   - MATH 227 Calculus II (4 units)

4. **Major Emphasis Elective**
   Additional Ocean, Weather, and Climate emphasis electives, selected upon advisement, needed to reach 34 units. (May include courses from the list above not selected to meet emphasis requirements)
## Bachelor of Science in Earth Sciences: Geology Emphasis – GEOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017-2018 with an AS-T in Geology. 26 units in the major (CHEM 115/CHEM 215/CHEM 216, ERTH 210, ERTH 500, ERTH 505, MATH 226, two elective units) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

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<thead>
<tr>
<th>Course</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
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<td>Earth Systems I</td>
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<td>ERTH 420</td>
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<td>or PHYS 220 and PHYS 222</td>
<td>or General Physics with Calculus I</td>
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<td>GE Area A: Written English Communication II (A4)</td>
<td>and General Physics with Calculus I Laboratory</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<td>ERTH 600GW</td>
<td>Earth's Climate History - GWAR</td>
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<td>PHYS 121 &amp; PHYS 122</td>
<td>General Physics II</td>
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<td>or PHYS 240 and PHYS 242</td>
<td>or General Physics with Calculus III</td>
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<td>ERTH 510</td>
<td>Structural Geology</td>
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<td>ERTH 515</td>
<td>Sedimentology and Stratigraphy</td>
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<td>ERTH 697</td>
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<td>ERTH 620</td>
<td>Field Methods in Geology</td>
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<td>ERTH 695</td>
<td>Senior Project</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Total Units</strong></td>
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1. Take ERTH 697 Senior Honors Thesis or University Elective (1 unit) if opting for Senior Project or take zero units if opting for Field Geology.
2. Only if opting for Senior Project to satisfy Culminating Experience.
3. Consult with department advisor about selection of ERTH course.
4. Four unit Field Geology option typically takes place in summer following 4th semester.

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-wide requirements: 9–18 units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units): check for courses that also satisfy Major and/or American Institutions.
- Students transferring with the AS-T in Geology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Earth Sciences Major (Emphasis in Geology): 39–44 units**

CHEM 115/115/121/121, MATH 226, ERTH 210, ERTH 500, ERTH 505, and two units of Geology emphasis electives, one unit of four unit Historical Geology, and one unit of four unit Calculus II in the Geology AS-T met in transfer.

- Basic Science & Math Foundation (8 units) in PHYS If some or all PHYS completed before transfer, consult with a major advisor about appropriate course choices.
- Earth Sciences Core/GWAR (8 units) Three of the four units of Historical Geology in the AS-T substitue for ERTH 500, and three of the four units of Calculus II in the Geology AS-T substitute for ERTH 505.
- Geology Emphasis (14 units)
- Electives (5–9 units) one unit of four unit Historical Geology and one unit of Calculus II in the Geology AS-T satisfy two units of the 11 unit elective requirement; if taken before transfer, Mineralogy satisfies 4 units of the elective requirement. If Mineralogy completed before transfer, consult with major advisor about appropriate course choices)
- Culminating Experience (4–5 units): Take ERTH 690 (1 unit) along with one of the following three options: Senior Honors Thesis (ERTH 697/ERTH 698 (2 units each); Senior Project (ERTH 695, 3 units); or Field Geology course (4 units) offered as a summer field camp, typically the summer following the 4th semester.

**University electives: One Unit or More**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, Culminating Experience option selected, and course choices at SF State - some courses may meet more than one requirement, e.g. both in UD GE and in the major.

**Upper Division GE: UD-C or UD-D (courses listed also satisfy US History)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 478</td>
<td>American Mass Culture II: Gilded Age to Digital Age</td>
<td>3</td>
</tr>
<tr>
<td>HIST 484</td>
<td>Disability and Culture in American</td>
<td>3</td>
</tr>
<tr>
<td>JS/HIST 449</td>
<td>American Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>MUS 506</td>
<td>Survey of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 559</td>
<td>Women in Jazz</td>
<td>3</td>
</tr>
<tr>
<td>RRS 600/HIST 466</td>
<td>History of People of Color in the U.S.</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Earth Sciences: Hydrology Emphasis – GEOL
Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Geology. Twenty-six units in the major (CHEM 115/CHEM 215/CHEM 216, ERTH 210, ERTH 500, ERTH 505, MATH 226, two elective units) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 425</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112 or PHYS 220 and PHYS 222</td>
<td>General Physics I or General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 met in transfer</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Units 16

| **Second Semester** | | |
| ERTH 442 | Surface Water Hydrology | 4 |
| ERTH 600GW | Earth’s Climate History - GWAR | 3 |
| PHYS 121 & PHYS 122 or PHYS 240 and PHYS 242 | General Physics II or General Physics with Calculus III and General Physics with Calculus III Laboratory | 4 |
| GE Area UD–B: Upper Division Physical and/or Life Sciences | | 3 |
| Hydrology Emphasis Elective | | 2 |

Units 16

| **Third Semester** | | |
| ERTH 430 | Fluid Dynamics in Earth Systems | 3 |
| ERTH 444 | Hydrogeology | 4 |
| ERTH 697 | Undergraduate Research | 1-2 |
| Hydrology Emphasis Elective | | 3 |
| Upper Division GE: UD-C or UD-D – See List – also satisfy US History | | 3 |
| University Elective | | 0-1 |

Units 14

| **Fourth Semester** | | |
| ERTH 544 | Groundwater Contamination | 3 |
| ERTH 690 | Earth Sciences Capstone Presentation | 1 |
| Culminating Experience: Senior Honors Thesis or Senior Project or Field Geology | | 2-4 |
| ERTH 695 | Senior Project | |
| ERTH 698 | Senior Thesis | |
| Field Geology | | |
| Upper Division GE: UD-C or UD-D | | 3 |
| U.S. and California Government (p. 75) | | 3 |
| or University Elective if US/CA Government met before transfer | | |
| University Elective | | 0-1 |

Units 14

Total Units 60
To do at SF State:
Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 units**
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer.
- Upper division GE, areas B, C and D (9 units) – check for courses that also satisfy Major and/or American Institutions.
- Students transferring with the AS-T in Geology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Earth Sciences Major (Emphasis in Hydrology): 42–43 units**
[CHEM 115, MATH 226, ERTH 210, ERTH 500, ERTH 505, and seven units of Geology emphasis electives, five units of CHEM 215/CHEM 216, one unit of four unit Historical Geology, and one unit of four unit Calculus II in the Geology AS-T substitute for ERTH 500, and three of the four units of Calculus II in the Geology AS-T substitute for ERTH 505.]

- Basic Science & Math Foundation (8 units in PHYS) If some or all PHYS completed before transfer, consult with major advisor about appropriate course choices.
- Earth Sciences Core/GWAR (8 units) Three of the four units of Historical Geology in the AS-T substitute for ERTH 500, and three of the four units of Calculus II in the Geology AS-T substitute for ERTH 505.
- Hydrology Emphasis (17 units)
- Electives (5 units) Five units of CHEM 215/CHEM 216, one unit of four unit Historical Geology, and one unit of Calculus II in the Geology AS-T satisfy seven units of the 12 unit elective requirement; if taken before transfer, Mineralogy satisfies four units of the elective requirement. If Mineralogy completed before transfer, consult with major advisor about appropriate course choices)
- Culminating Experience (4-5 units): Take ERTH 690 (1 unit) along with one of the following three options: Senior Honors Thesis (ERTH 697/ERTH 698 (2 units each); Senior Project (ERTH 695, 3 units); or Field Geology course (4 units) offered as a summer field camp, typically the summer following the 4th semester.

**University Electives: Zero or More units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, Culminating Experience option selected, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and in the major.

**Upper Division GE: UD-C or UD-D (Courses Listed Also Satisfy US History)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 460</td>
<td>Power and Politics in American Indian History</td>
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<tr>
<td>HIST/JS 449</td>
<td>American Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 466/RRS 600</td>
<td>History of People of Color in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
<td>The U.S. Constitution to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 471</td>
<td>The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 478</td>
<td>American Mass Culture II: Gilded Age to Digital Age</td>
<td>3</td>
</tr>
<tr>
<td>HIST 484</td>
<td>Disability and Culture in American</td>
<td>3</td>
</tr>
<tr>
<td>MUS 506</td>
<td>Survey of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 559</td>
<td>Women in Jazz</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Earth Sciences: Ocean, Weather and Climate Emphasis - GEOL Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Geology. Twenty-six units in the major (CHEM 115/CHEM 215/CHEM 216, ERTH 500, MATH 226, MATH 227, five elective units) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 205</td>
<td>Techniques in Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I or General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 112 or PHYS 220 and PHYS 222</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ocean, Weather, and Climate Emphasis requirement – Select One: 1,2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ERTH 335</td>
<td>Global Warming</td>
<td></td>
</tr>
<tr>
<td>ERTH 360</td>
<td>California Weather Events</td>
<td></td>
</tr>
<tr>
<td>ERTH 365</td>
<td>Extreme Weather in a Warming World</td>
<td></td>
</tr>
<tr>
<td>or University Elective if already satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 met in transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ERTH 260</td>
<td>Physical Processes in the Atmosphere</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 505</td>
<td>Quantitative Methods in Earth Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 600GW</td>
<td>Earth's Climate History - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics II or General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 122 or PHYS 240 and PHYS 242</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-C or UD-D – Courses Listed Also Satisfy US History – See List</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>ERTH 430</td>
<td>Fluid Dynamics in Earth Systems</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 465</td>
<td>Weather Analysis and Forecasting I</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 697</td>
<td>Undergraduate Research</td>
<td>2</td>
</tr>
<tr>
<td>or University Elective if opting for Senior Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>12</td>
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<tr>
<td>ERTH 470</td>
<td>Physical Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 535</td>
<td>Planetary Climate Change</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 690</td>
<td>Earth Sciences Capstone Presentation</td>
<td>1</td>
</tr>
<tr>
<td>Culminating Experience: Senior Honors Thesis or Senior Project</td>
<td></td>
<td>2-3</td>
</tr>
<tr>
<td>ERTH 695</td>
<td>Senior Project</td>
<td></td>
</tr>
<tr>
<td>ERTH 698</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>University Elective if Opting for Senior Honors Thesis</td>
<td></td>
<td>0-1</td>
</tr>
</tbody>
</table>
Upper Division GE: UD-C or UD-D – Courses Listed Also Satisfy US History – See List

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
</tr>
</tbody>
</table>

Total Units 60

1. Any four of the five course options described as an “Emphasis Requirement” (and ERTH 260) satisfy the Ocean, Weather, and Climate (OWC) emphasis requirement, while the fifth course can either count as an Emphasis elective or can be replaced by another OWC emphasis elective upon advisement.

2. ERTH 335, ERTH 360, ERTH 365 also satisfy GE Area UD-B: Upper Division Physical and/or Life Sciences.

3. Take ERTH 697 Senior Honors Thesis or take University Elective (2 units) if opting for Senior Project.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–15 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (6 units): UD-B met in major. Check for courses that also satisfy Major and/or American Institutions.
- Students transferring with the AS-T in Geology are not required to fulfill SF State Studies or Complementary Studies requirements.

**Earth Sciences Major (Emphasis in Ocean, Weather, and Climate): 41–44 Units**

CHEM 115, MATH 226, MATH 227, ERTH 500, and ten units of Ocean, Weather, and Climate emphasis electives (five units of CHEM 215/CHEM 216, one unit of four-unit Historical Geology, and four units of Physical Geology in the Geology AS-T) meet in transfer.

- Basic Science & Math Foundation (8 units in PHYS) If some or all PHYS completed before transfer, consult with major advisor about appropriate course choices.
- Earth Sciences Core/GWAR (11 units) Three of the four units of Historical Geology in the AS-T substitute for ERTH 500.
- Ocean, Weather, and Climate Emphasis (17-18 units) four units of Calculus II in the Geology AS-T count toward the Emphasis requirements.
- Electives (1-2 units) 5 units of CHEM 215/CHEM 216, one unit of four unit Historical Geology, and four units of Physical Geology in the Geology AS-T satisfy ten units of the 11-12-unit elective requirement.
- Culminating Experience (4-5 units): Take ERTH 690 (1 unit) along with one of the following two options: Senior Honors Thesis (ERTH 697/ERTH 698 (2 units each), or Senior Project (ERTH 695, 3 units).

**University Electives: Three or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, Culminating Experience option selected, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.

**Upper Division GE: UD-C or UD-D – Courses Listed Also Satisfy US History**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>HIST/JS 449</td>
<td>American Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 465</td>
<td>American Ethnic and Racial Relations II: 1890 - Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 466/RRS 600</td>
<td>History of People of Color in the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470</td>
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<td>HIST 478</td>
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<tr>
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<td>Survey of Jazz</td>
<td>3</td>
</tr>
<tr>
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<td>Women in Jazz</td>
<td>3</td>
</tr>
</tbody>
</table>
Certificate in Weather Study

General Information
The Certificate in Weather Study program is offered for those interested in learning about meteorology and companion disciplines in some depth, but not at the major level. Students who complete the certificate will be able to read and interpret basic weather maps and make basic weather forecasts for themselves and will be conversant on many weather and climate related topics of ongoing interest and importance, such as global climate change.

For advice about completing the certificate, consult with the certificate advisor, Dr. John Monteverdi. For information about applying to receive the certificate once the program requirements are met, see http://tornado.sfsu.edu/Programs/Weather_Study_Cert.html.

Weather Study Certificate — 24 Units

Meteorology Core Requirement (14 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 172</td>
<td>Our Dynamic Ocean Lecture and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 260</td>
<td>Physical Processes in the Atmosphere</td>
<td>4</td>
</tr>
<tr>
<td>ERTH 461</td>
<td>Weather Chart Analysis and Discussion</td>
<td>1</td>
</tr>
<tr>
<td>ERTH 490</td>
<td>Public Weather Forecasting</td>
<td>1</td>
</tr>
<tr>
<td>ERTH 535</td>
<td>Planetary Climate Change</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (10 Units)
On advisement, select at least 10 units from among those listed below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 310</td>
<td>The Violent Earth</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 360</td>
<td>California Weather Events</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 365</td>
<td>Extreme Weather in a Warming World</td>
<td>3</td>
</tr>
<tr>
<td>Any Earth Sciences (ERTH) course numbered 410 or higher, for example:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERTH 465</td>
<td>Weather Analysis and Forecasting I (4)</td>
<td></td>
</tr>
<tr>
<td>ERTH 456</td>
<td>Use of Computers in the Earth Sciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 558</td>
<td>Consulting Meteorology and Oceanography</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Course fulfills a General Education requirement.

Minor in Earth Sciences
The Minor in Earth Sciences program consists of 15 units, including ERTH 400, ERTH 500 and 9 units of Earth Sciences electives selected with the advice and approval of a Department of Earth & Climate Sciences faculty advisor. (See program requirements below.)

Earth Sciences Minor — 15 units

Required Courses (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 400</td>
<td>Earth Systems I</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 500</td>
<td>Earth Systems II</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 units)

1. Complete at least 9 units of selected Earth & Climate Sciences (ERTH) (or closely related) coursework in consultation with a Department of Earth & Climate Sciences faculty advisor.
2. At least 6 of the 9 units must come from courses with the ERTH prefix.
3. At least 6 of the 9 units must be upper division coursework.

4. No more than 3 of the 9 units can come from a course designed primarily for General Education (such as 300-level ERTH courses).

Master of Science in Geosciences
The Master of Science in Geosciences is an advanced, postgraduate degree that trains students to conduct research in Earth sciences and prepares students for careers in private industry, government agencies, non-governmental organizations (NGOs), teaching in high schools or community colleges, or for continuing postgraduate studies leading to a doctoral degree at another university. Although there are no formal concentrations within the program, students choose an area of research from within the geoscience disciplines and then select a faculty advisor and a course of study.

The Department of Earth & Climate Sciences faculty includes people with expertise in geology, hydrology, meteorology, and oceanography—fields that are critical to understanding fundamental Earth processes and many environmental problems, such as air and water contamination, coastal erosion, and climate change. In addition to standard courses in the three subdisciplines, recent advanced-level courses have included Tectonic Geomorphology, Global Tectonics, Rock Mechanics in Geomorphology, Paleoceanography, Vadose Zone Hydrogeology, Oceanographic Processes in the California Current System, and Electron Microscopy.

All students take courses in their respective areas of emphasis plus a common core of three courses: ERTH 700, a multidisciplinary seminar that exposes students to current geoscientific research and literature, and ERTH 701 and ERTH 702, which prepare students for thesis research, quantitative analyses and scientific writing. Thesis projects are expected to have a rigorous base in a geoscience discipline. Depending on the particular field and focus of study, these projects can involve laboratory research, field work, theory development, numerical simulations or model development.

Recent graduate research projects have focused on topics such as active faults in Death Valley, effects of climate change on regional aquifers, geomorphic controls on Bay Area streams, deformation associated with the San Andreas fault system, Pliocene–Pleistocene climate change, large-scale tectonic processes in the Himalayan Mountains, carbon cycling in the ocean, wave erosion at Ocean Beach, and characteristics of severe storms in California. We encourage students to work on interdisciplinary projects and develop interactions and collaborations with other departments in the University, other institutions and agencies, and private industry.

We strongly recommend that students plan a course of study before beginning the M.S. program, in consultation with a faculty advisor and the graduate coordinator.

Admission to the Program
To be considered for admission to the master’s program as a classified graduate student, applicants must:

• Satisfy the University admission requirements.
• Have a bachelor’s degree in one of the geosciences (geology, meteorology, or oceanography) or a related discipline.
• Have a 3.0 GPA in their earned undergraduate degree or last 60 semester (90 quarter) units completed.
• Satisfactorily complete the Graduate Record Examination general test.
• Provide letters of recommendation from at least two people familiar with the applicant’s previous academic work and/or professional accomplishments.
• Submit a statement of purpose.

Letters of recommendation and statement of purpose should be submitted directly to the department’s graduate coordinator (Dr. Petra Dekens, dekens@sfsu.edu). Other materials should be submitted to the Graduate Studies Division of the University. Materials should be submitted by February 15 for admission the following fall semester and by November 1 for the following spring semester.

Applicants lacking the appropriate background may be admitted as conditionally classified graduate students. These students must complete additional course work that will not be counted toward the graduate requirements. Conditionally admitted students may take courses but cannot file an Advancement to Candidacy (ATC) form until all deficiencies have been satisfied.

Written English Proficiency Requirement
Each graduate student is required to demonstrate an acceptable level of written English proficiency on two levels:

Level One
Satisfied by obtaining a score of 4.0 or better on the analytical writing component of the GRE. If the score is 3.5 or less students will be required to take SCI 614 during their first semester of graduate studies.

Level Two
Satisfied by completion of a written thesis (ERTH 898).

Advancement to Candidacy
To be advanced to candidacy, each student must:

• Satisfy level one of the written English proficiency requirement.
• Satisfy all course deficiencies stipulated upon entrance into the master’s program.
• Choose a faculty advisor and complete a research proposal that has been approved by the student’s thesis committee.
• File an Advancement to Candidacy (ATC) form.

Geosciences (M.S.) — Minimum 30 units

Required Courses (17 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 700</td>
<td>Graduate Seminar in Geosciences</td>
<td>2</td>
</tr>
<tr>
<td>ERTH 701</td>
<td>Research Methods in Geosciences</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 702</td>
<td>Quantitative Methods in Geosciences</td>
<td>3</td>
</tr>
<tr>
<td>ERTH 897</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td>ERTH 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (13 units)

Upper division or graduate elective courses on advisement.

All students must present an oral thesis defense to the Earth & Climate Sciences faculty and students.

Elective units are chosen from courses offered by the Department or other University departments, and must be selected by students in consultation with their faculty advisors. At least 6 units must be courses numbered 700 or higher, and 6 units must be courses offered in the Earth & Climate Sciences Department.

To help prepare for their careers, graduate students are strongly encouraged to serve as a Graduate Teaching Assistant (GTA) for at least one semester. GTAs typically teach lab sections attached to lectures in introductory, general education courses in geology (ERTH 112, ERTH 210, ERTH 230), meteorology (ERTH 162), and oceanography (ERTH 172). To support their professional development in teaching, GTAs are strongly encouraged to enroll in a professional development course such as SCI 750 (2 units) before or during their service as a GTA, to learn about research-based best practices in teaching and learning. (These courses count toward the 13-unit graduate elective unit requirement.)

Students can receive their graduate degree when they complete all course requirements and their thesis committee approves the written thesis and oral thesis defense.
ENGLISH

College of Science and Engineering
Dean: Keith Bowman

School of Engineering
Science Building, Room 163
Phone: (415) 338–1228
Email: engrasst@sfsu.edu

Director: Wenshen Pong
Graduate Coordinator: Hamid Shahnaser (Embedded Systems and Energy Systems)
Graduate Coordinator: Cheng Chen (Structural/Earthquake Engineering)

Mission and Goal
The mission of the School of Engineering is to educate students from a diverse and multicultural population to become productive members of the engineering profession and society at large. Educational objectives in support of this mission depend upon the major program, and are stated below in the description of each program.

Program Scope
The School of Engineering offers Bachelor of Science programs in Civil, Computer, Electrical, and Mechanical Engineering, as well as a minor program in each discipline. Descriptions of the four major and minor programs follow this general introduction.

Civil engineering is concerned with the building of civil and environmental facilities, which are essential for the commerce of our society. Civil engineers design and construct bridges, buildings, wastewater treatment plants, water supply facilities, hazardous waste facilities, and transportation systems. The program at San Francisco State University provides a broad and practical education which prepares students for civil engineering employment and (for those who qualify) for graduate studies.

Computer engineering combines electrical engineering and computer science and deals with the design and application of computer systems. These computer systems can range from super computers to tiny microprocessors that are embedded in all kinds of apparatus such as automobiles, appliances, cellular phones, medical devices, office equipment, etc. The computer engineering program teaches students about computer hardware, software, integration, interfacing and applications with a strong emphasis on analysis and design. Hence, students pursuing a computer engineering degree must have a solid foundation in mathematics and physical sciences. Students develop problem-solving and decision-making skills as well as an appreciation for the impact of technology in society. Graduates of the program can seek employment immediately, or can continue studies for an advanced degree in computer engineering, computer science, electrical engineering, or other areas such as business, law, or medicine.

Electrical engineering is the profession that deals with the design and analysis of electrical and electronic devices and systems. This branch of engineering covers many diverse areas, including electrical power generation and distribution, the design and fabrication of electronic semiconductor devices, and the creation of components and systems for consumer, medical, telecommunications and many other applications. Graduates with a B.S. in Electrical Engineering have a number of options available to them. They may engage in the analysis, modeling, simulation, design, testing, manufacturing, or field services of electrical, electronic, or magnetic equipment. Persons interested in research, development, or college-level teaching may return to universities for advanced degrees in a specified area of electrical engineering.

Mechanical engineering is the field responsible for the design of machines and devices used throughout society. Industries involved in the generation of electricity; in petroleum production; and in the design and manufacture of electronics, aircraft, automobiles, consumer and industrial products typically employ large numbers of mechanical engineers. Mechanical engineers are also employed by companies involved in automated manufacturing as well as robotics and control. The program at San Francisco State University prepares the student to enter into professional employment directly after graduation in addition to providing the needed foundation for graduate study.

Recognizing the value to certain students majoring in science broadening their education to include applications of their background in science to real-world physical systems, four minors in engineering are offered.

The master's program includes primary curricular areas of specialization in civil/structural, electrical/computer, and mechanical/energy engineering from which the student may choose his/her program of study upon advisement. The objectives of the program are to provide students with the advanced engineering education necessary for solving complex problems in engineering practice and to provide opportunities for updating and upgrading the skills of practicing engineers. These objectives are accomplished by a flexible program to meet individual student needs.

Career Outlook
Graduates with a B.S. in Civil Engineering may engage in the design and construction of buildings, bridges, roads, dams, water supply facilities, and environmental facilities for treating wastewater and hazardous wastes. Civil engineers find employment with industrial firms, government agencies, utilities, and public works departments, as well as engineering firms which consult for these enterprises. After gaining practical experience, some civil engineers form their own consulting firms.

Graduates with a B.S. in Computing Engineering may engage in the design, integration, interfacing, and application of computer hardware and software. Computer engineering is the fastest growing engineering profession, and it impacts all aspects of our lives. Since computers are everywhere, from super computers to embedded microprocessors, computer engineers are needed in design, development, testing, marketing, and technical support of a wide variety of industries.

Examples of major industries that employ computer engineers include computers, semiconductors, instrumentation, communications, networks, medical equipment and manufacturing.

Graduates with a B.S. in Electrical Engineering may engage in the analysis, modeling, simulation, design, testing, manufacturing, or field services of electrical, electronic, or magnetic equipment. They may also engage in the operation and maintenance of facilities for electrical power generation or telecommunication. High technology companies employ electrical engineers in the fields of electronic and computer manufacturing, as well as in power generation and communications.

Graduates with a B.S. in Mechanical Engineering may immediately engage in the design, analysis, testing, production, and maintenance of machines and mechanical systems. Most industries, including aerospace, electronics, manufacturing, automotive, chemical, power generation,
agriculture, food processing, textile, and mining, employ mechanical engineers.

Engineers interested in research, development, or college-level teaching return to college for an M.S. or Ph.D. in their specified field. Engineers interested in management and business aspects may return to college for a Master of Business Administration.

**Professors**

**Associate Professor**
C. Chen, A. Cheng, E. Enssani, H. Jiang, K. Teh

**Assistant Professors**
M. Azadi, Z. Jiang, J. Wong, J. Ye, X. Zhang

**Majors**
- Bachelor of Science in Civil Engineering (p. 1167)
- Bachelor of Science in Computer Engineering (p. 1174)
- Bachelor of Science in Electrical Engineering (p. 1180)
- Bachelor of Science in Mechanical Engineering (p. 1187)

**Minors**
- Minor in Civil Engineering (p. 1193)
- Minor in Computer Engineering (p. 1193)
- Minor in Electrical Engineering (p. 1193)
- Minor in Mechanical Engineering (p. 1194)

**Masters**
- Master of Science in Engineering: Concentration in Structural/Earthquakes (p. 1196)
- Master of Science in Engineering: Concentration in Embedded Electrical and Computer Systems (p. 1194)
- Master of Science in Engineering: Concentration in Energy Systems (p. 1195)

**Bachelor of Science in Civil Engineering**

**Undergraduate Programs in Engineering**
Freshman applicants have completed four years of high school mathematics, one year of high school chemistry, and one year of high school physics. Students are also encouraged to include courses in mechanical drawing and computer programming.

Community college transfers should complete the sequence of mathematics, chemistry, physics, and engineering courses listed in freshman and sophomore years under the “sample sequence of courses,” if available at the community college.

The Bachelors of Science in Civil, Computer, Electrical, and Mechanical Engineering require – 127, 128, 129, and 129 semester units, respectively. A minimum of 30 units must be earned in residence at SF State. Of these units, 24 must be upper division courses, and 12 of these upper division units must be in the major. Major requirements, including mathematics, chemistry, and physics prerequisites, comprise - 93 units for civil engineering, 94 for computer engineering, 95 for electrical engineering and 95 units for mechanical engineering. For civil engineering, 50 of the required units are lower division and 43 units are upper division. For mechanical engineering, 51 of the required units are lower division and 44 units are upper division. For electrical engineering, 50 of the required units are lower division and 45 units are upper division. For computer engineering, 49 of the required units are lower division and 45 units are upper division. The remaining 33 units satisfy the balance of the university requirements including communication skills and general education in humanities and social sciences. Students are advised that, except for some general education (GE) courses, all courses which are to be counted toward completion of an engineering degree must be taken for a letter grade; the CR/NC option may not be used in this context.

**Civil Engineering**
The curriculum provides a broad-based common core of engineering science and the essential civil engineering subjects. The students conclude with 15 units of upper division electives where the primary emphasis is design, practical applications, and computer solutions in selected areas of civil engineering. Graduates of the civil engineering program are expected to have, within a few years of graduation:
- Established themselves as practicing professionals or engaged in graduate study in civil engineering or a related field.
- Become licensed civil engineers or made appropriate progress toward professional registration.

Students must complete 21 units of upper division engineering units before registering for ENGR 696.

Courses are scheduled during the day as well as in the late afternoon and evening. Other information and assistance in selecting courses can be obtained from a major advisor in the School of Engineering, or by calling (415) 338-1174, by email to engrasst@sfasu.edu, or by writing to:
School of Engineering
San Francisco State University
Science Building
1600 Holloway Avenue
San Francisco, CA 94132

**General Education Requirements Met in the Engineering Major (All Concentrations)**
The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.
- Area A3 (Critical Thinking) is satisfied upon completion of ENGR 205 and one of ENGR 201 or ENGR 213.
- Upper Division General Education, Physical and Life Sciences (UD-B) is satisfied upon completion of ENGR 300 and one of ENGR 301 or ENGR 302.

**Civil Engineering (B.S.) – 91 units minimum**

**Required Courses (79-81 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>or CHEM 180</td>
<td>Chemistry for the Energy and the Environment</td>
<td></td>
</tr>
</tbody>
</table>
ENGR 100 Introduction to Engineering 1
ENGR 101 Engineering Graphics 1
ENGR 102 Statics 3
ENGR 103 Introduction to Computers 1
ENGR 200 Materials of Engineering 3
ENGR 201 Dynamics 3
ENGR 205 Electric Circuits 3
ENGR 235 Surveying 3
ENGR 300 Engineering Experimentation 3
ENGR 302 Experimental Analysis 1
ENGR 304 Mechanics of Fluids 3
ENGR 309 Mechanics of Solids 3
ENGR 323 Structural Analysis 3
ENGR 425 Reinforced Concrete Structures 3
ENGR 429 Construction Management 3
ENGR 430 Soil Mechanics 3
ENGR 434 Principles of Environmental Engineering 3
ENGR 436 Transportation Engineering 3
ENGR 696 Engineering Design Project I 1
ENGR 697GW Engineering Design Project II-GWAR 2
MATH 226 Calculus I 4
MATH 227 Calculus II 4
MATH 228 Calculus III 4
MATH 245 Elementary Differential Equations and Linear Algebra 3

Upper Division Engineering Electives (12 units)
Choice of upper division electives must present a clearly identifiable educational objective and ensure that the program requirements in engineering science and design are met by all students. Distribution of credit units among engineering science and design is given in the Advising Guide. A study plan of intended upper division electives must be approved by the student's advisor and the program coordinator prior to the seventh semester of the engineering program.

A total of 12 units from the following list of courses is required, subject to the minimum number of units specified for each group. Students with a GPA of at least 3.0 and the required prerequisites may take graduate courses (numbered 800 and above) with the approval of their advisor or the program coordinator.

ENGR 303 Engineering Thermodynamics 3
ENGR 421 Structural Engineering Laboratory 1
ENGR 425 Reinforced Concrete Structures 3
ENGR 426 Steel Structures 3
ENGR 427 Wood Structures 3
ENGR 431 Foundation Engineering 3
ENGR 432 Finite Element Methods in Structural and Continuum Mechanics 3

ENGR 435 Environmental Engineering Design 3
ENGR 439 Construction Engineering 3
ENGR 441 Fundamentals of Composite Materials 3
ENGR 461 Mechanical and Structural Vibrations 3
ENGR 468 Applied Fluid Mechanics and Hydraulics 3
ENGR 469 Alternative and Renewable Energy Systems 3
ENGR 610 Engineering Cost Analysis 3
ENGR 699 Independent Study 1-3
ENGR 825 Bridge Engineering and Prestress Reinforced Concrete Structures 3
ENGR 826 Seismic Hazard Analysis 3
ENGR 827 Structural Design for Fire Safety 3
ENGR 829 Advanced Topics in Structural Engineering 3
ENGR 830 Finite Element Methods in Structural Continuum Mechanics 3
ENGR 831 Advanced Concrete Structures 3
ENGR 832 Advanced Topics in Seismic Design 3
ENGR 833 Principles of Earthquake Engineering 3
ENGR 835 Advanced Steel Structures 3
ENGR 836 Structural Design for Earthquakes 3
ENGR 837 Geotechnical Earthquake Engineering 3

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
</tbody>
</table>
Arts and/or Humanities  UD  3  UD-C
Social Sciences  UD  3  UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)  LD or UD  3
Environmental Sustainability (ES)  LD or UD  3
Global Perspectives (GP)  LD or UD  3
Social Justice (SJ)  LD or UD  3

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit [http://www.assist.org](http://www.assist.org). Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements.

Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring
semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Science in Civil Engineering Roadmap

127 Total Units Required  
Minimum Number of Units in Major: 93

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry or Chemistry for the Energy and the Environment</td>
<td>3.5</td>
</tr>
<tr>
<td>or CHEM 180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Graphics</td>
<td>1</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 103</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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<tr>
<td><strong>Units</strong></td>
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<td>15-17</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>ENGR 102</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 200</td>
<td>Materials of Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>18</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>ENGR 201</td>
<td>Dynamics</td>
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<tr>
<td>ENGR 235</td>
<td>Surveying</td>
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<tr>
<td>ENGR 205</td>
<td>Electric Circuits</td>
<td>3</td>
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<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
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</tr>
<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
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</tr>
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<td><strong>Units</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>ENGR 300</td>
<td>Engineering Experimentation</td>
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<tr>
<td>ENGR 304</td>
<td>Mechanics of Fluids</td>
<td>3</td>
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<tr>
<td>ENGR 309</td>
<td>Mechanics of Solids</td>
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</tr>
<tr>
<td>ENGR 434</td>
<td>Principles of Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>Units</td>
<td></td>
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<tr>
<td>-------------------------------------------------------------------------------------------------</td>
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<tr>
<td>ENGR 302 Experimental Analysis</td>
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<td>ENGR 323 Structural Analysis</td>
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<td>ENGR 429 Construction Management</td>
<td>3</td>
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<td>ENGR 430 Soil Mechanics</td>
<td>3</td>
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<td>ENGR 436 Transportation Engineering</td>
<td>3</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<thead>
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<td>ENGR 425 Reinforced Concrete Structures</td>
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<tr>
<td>ENGR 696 Engineering Design Project I $^5$</td>
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<td>Major Upper Division Electives – Take Two $^6$</td>
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<td>GE Area D: Social Sciences (D1)</td>
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<td>ENGR 697GW Engineering Design Project II-GWAR</td>
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</tr>
<tr>
<td>Major Upper Division Electives – Take Two $^6$</td>
<td>6</td>
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<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Eighth Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences is satisfied upon completion of ENGR 300 and either ENGR 301 or ENGR 302. You must complete 21 units of upper-division engineering units before registering for ENGR 696.</td>
<td>14</td>
</tr>
</tbody>
</table>

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of 105 in the second semester; multilingual students may be advised into alternative English courses.

2. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

3. GE Area A: Critical Thinking (A3) is satisfied upon completion of ENGR 205 and ENGR 201 or ENGR 213.

4. GE Area UD–B: Upper Division Physical and/or Life Sciences is satisfied upon completion of ENGR 300 and either ENGR 301 or ENGR 302.

5. You must complete 21 units of upper-division engineering units before registering for ENGR 696.
Major Electives (12 units)
ENGR 303 Engineering Thermodynamics (3 units)
ENGR 421 Structural Engineering Laboratory (1 unit)
ENGR 425 Reinforced Concrete Structures (3 units)
ENGR 426 Steel Structures (3 units)
ENGR 427 Wood Structures (3 units)
ENGR 431 Foundation Engineering (3 units)
ENGR 432 Finite Element Methods in Structural and Continuum Mechanics (3 units)
ENGR 435 Environmental Engineering Design (3 units)
ENGR 439 Construction Engineering (3 units)
ENGR 441 Fundamentals of Composite Materials (3 units)
ENGR 461 Mechanical and Structural Vibrations (3 units)
ENGR 468 Applied Fluid Mechanics and Hydraulics (3 units)
ENGR 469 Alternative and Renewable Energy Systems (3 units)
ENGR 610 Engineering Cost Analysis (3 units)
ENGR 699 Independent Study (1-3 units)
ENGR 825 Bridge Engineering and Prestress Reinforced Concrete Structures (3 units)
ENGR 826 Seismic Hazard Analysis (3 units)
ENGR 827 Structural Design for Fire Safety (3 units)
ENGR 829 Advanced Topics in Structural Engineering (3 units)
ENGR 830 Finite Element Methods in Structural Continuum Mechanics (3 units)
ENGR 831 Advanced Concrete Structures (3 units)
ENGR 832 Advanced Topics in Seismic Design (3 units)
ENGR 833 Principles of Earthquake Engineering (3 units)
ENGR 835 Advanced Steel Structures (3 units)
ENGR 836 Structural Design for Earthquakes (3 units)
ENGR 837 Geotechnical Earthquake Engineering (3 units)
Bachelor of Science in Computer Engineering

Undergraduate Programs in Engineering

Freshman applicants have completed four years of high school mathematics, one year of high school chemistry, and one year of high school physics. Students are also encouraged to include courses in mechanical drawing and computer programming.

Community college transfers should complete the sequence of mathematics, chemistry, physics, and engineering courses listed in freshman and sophomore years under the “sample sequence of courses”, if available at the community college.

The Bachelors of Science in Civil, Computer, Electrical, and Mechanical Engineering require – 127, 128, 129, and 129 semester units, respectively. A minimum of 30 units must be earned in residence at SF State. Of these units, 24 must be upper division courses and 12 of these upper division units must be in the major. Major requirements, including mathematics, chemistry, and physics prerequisites, comprise – 93 units for civil engineering, 94 for computer engineering, 95 for electrical engineering and 95 units for mechanical engineering. For civil engineering, 50 of the required units are lower division and 43 units are upper division. For mechanical engineering, 51 of the required units are lower division and 44 units are upper division. For electrical engineering, 50 of the required units are lower division and 45 units are upper division. For computer engineering, 49 of the required units are lower division and 45 units are upper division. The remaining 33 units satisfy the balance of the university requirements including communication skills and general education in humanities and social sciences. Students are advised that, except for some general education (GE) courses, all courses which are to be counted toward completion of an engineering degree must be taken for a letter grade; the CR/NC option may not be used in this context.

Computer Engineer

Computer engineering is a multidisciplinary field with roots in electrical engineering and computer science that has grown to become a separate discipline in itself. Graduates of the computer engineering program are expected to have, within a few years of graduation:

- Established themselves as practicing professionals or engaged in graduate study in computer engineering or a related field.
- Demonstrated an ability to be productive and responsible professionals

The first two years of the program are designed to build a strong background in mathematics and science to provide a basis for understanding the underlying analysis and modeling tools and physical principles that are common to all engineering. The last two years cover a rich set of hardware and software subjects to give students a broad background in computer engineering. This broad foundation enables students to adapt and extend their knowledge and skills more easily in the future. The curriculum also stresses problem-solving skills and teamwork. Through electives, students can choose to develop further breadth or in-depth knowledge in one of three areas: embedded systems, network systems, or multimedia systems.

The number of units required for graduation (p. 66) and the GE requirements (p. 82) are described in the Undergraduate Education section of this Bulletin. For information for all engineering students, see Undergraduate Programs in Engineering above.

A number of required and elective lecture courses in the computer engineering program have corresponding laboratory courses that students are either required or strongly encouraged to take concurrently. These course pairs are:

- ENGR 205 & ENGR 206 Electric Circuits and Circuits and Instrumentation Laboratory
- ENGR 353 Microelectronics
- ENGR 356 Digital Design
- ENGR 447 Control Systems
- ENGR 357 Digital Design Laboratory
- ENGR 446 and Control Systems Laboratory

Students who drop or withdraw from any of these lecture courses must also drop or withdraw from the corresponding laboratory course, or they will be administratively dropped or withdrawn.

Students must complete 21 units of upper-division engineering units before registering for ENGR 696.

Courses are scheduled during the day as well as in the late afternoon and evening. Other information and assistance in selecting courses can be obtained from a major advisor in the School of Engineering, or by calling (415) 338-1174, by email to engrasst@sfsu.edu, or by writing to:

School of Engineering
San Francisco State University
Science Building
1600 Holloway Avenue
San Francisco, CA 94132

General Education Requirements Met in the Engineering Major (All Concentrations)

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area A3 (Critical Thinking) is satisfied upon completion of ENGR 205 and one of ENGR 201 or ENGR 213.
- Upper Division General Education, Physical and Life Sciences (UD-B) is satisfied upon completion of ENGR 300 and one of ENGR 301 or ENGR 302.

Computer Engineering (B.S.) – 92 units minimum

Required Courses (86-88 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry or CHEM 180</td>
<td>3-5</td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 220</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 230</td>
<td>Discrete Mathematical Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 340</td>
<td>Programming Methodology</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Computer Engineering

**Upper Division Electives (6 units)**

Choice of upper division electives must demonstrate a clearly identifiable educational objective and have an advisor's approval. A study plan of intended upper division electives must be approved by the student's advisor and the program coordinator prior to registering for ENGR 696.

A total of 6 units from the following list of courses is required. Students with a GPA of at least 3.0 and the required prerequisites may take graduate courses (numbered 800 and above) with the approval of their advisor or the program coordinator.

- **CSC 413** Software Development 3
- **ENGR 100** Introduction to Engineering 1
- **ENGR 121** Gateway to Computer Engineering 1
- **ENGR 205** Electric Circuits 3
- **ENGR 206** Circuits and Instrumentation Laboratory 1
- **ENGR 212** Introduction to Unix and Linux for Engineers 2
- **ENGR 213** Introduction to C Programming for Engineers 3
- **ENGR 300** Engineering Experimentation 3
- **ENGR 301** Microelectronics Laboratory 1
- **ENGR 305** Linear Systems Analysis 3
- **ENGR 353** Microelectronics 3
- **ENGR 356** Digital Design 3
- **ENGR 357** Digital Design Laboratory 1
- **ENGR 451** Digital Signal Processing 4
- **ENGR 476** Computer Communications Networks 3
- **ENGR 478** Design with Microprocessors 4
- **ENGR 479** Digital Systems Design 3
- **ENGR 456** Computer Systems 3
- **ENGR 696** Engineering Design Project I 1
- **ENGR 697GW** Engineering Design Project II-GWAR 2
- **MATH 227** Calculus II 4
- **MATH 226** Calculus I 4
- **MATH 228** Calculus III 4
- **MATH 245** Elementary Differential Equations and Linear Algebra 3
- **PHYS 220** General Physics with Calculus I 4
- **& PHYS 222** and General Physics with Calculus I Laboratory 4
- **PHYS 230** General Physics with Calculus II 4
- **& PHYS 232** and General Physics with Calculus II Laboratory 4

**ENGR 610** Engineering Cost Analysis 3
**ENGR 844** Embedded Systems 3
**ENGR 848** Digital VLSI Design 3
**ENGR 849** Advanced Analog IC Design 3
**ENGR 851** Advanced Microprocessor Architectures 3
**ENGR 852** Advanced Digital Design 3
**ENGR 853** Advanced Topics in Computer Communication and Networks 3
**ENGR 854** Wireless Data Communication Standards 3
**ENGR 856** Nanoscale Circuits and Systems 3
**ENGR 868** Advanced Control Systems 3
**ENGR 869** Robotics 3

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tr>
<td>Oral</td>
<td>LD</td>
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<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td>Written English</td>
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<td>A2</td>
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<tr>
<td>Communication I</td>
<td>Critical Thinking</td>
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<td>A3</td>
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<tr>
<td>Written English</td>
<td>Communication II</td>
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<td>A4</td>
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<tr>
<td>Physical Science</td>
<td>Life Science</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>1</td>
<td>B3</td>
<td></td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
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<td>Arts</td>
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<td>Arts or Humanities</td>
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<td>LD</td>
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<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>LifeLong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
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<td>E</td>
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<td>Physical and/or Life Science</td>
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<td>3</td>
<td>UD-B</td>
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<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

**American Ethnic and Racial Minorities (AERM)**

- American Ethnic and Racial Minorities (AERM)

Total Units: 1175
Environmental Sustainability (ES)  
LD or UD  
3

Global Perspectives (GP)  
LD or UD  
3

Social Justice (SJ)  
LD or UD  
3

Note: LD = Lower Division; UD = Upper Division.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Computer Engineering Roadmap

128 Total Units Required  
Minimum Number of Units in Major: 94

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry or Chemistry for the Energy and the Environment</td>
<td>3-5</td>
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<td>or CHEM 180</td>
<td></td>
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<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 121</td>
<td>Gateway to Computer Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 212</td>
<td>Introduction to Unix and Linux for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
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<td>GE Area A: Written English Communication (A2)</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>ENGR 213</td>
<td>Introduction to C Programming for Engineers</td>
<td>3</td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
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<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td>Units</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>CSC 220</td>
<td>Data Structures</td>
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<tr>
<td>CSC 230</td>
<td>Discrete Mathematical Structures for Computer Science</td>
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<tr>
<td>ENGR 205 &amp; ENGR 206</td>
<td>Electric Circuits and Circuits and Instrumentation Laboratory</td>
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<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
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<tr>
<td>GE Area A: Oral Communication (A1)</td>
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<td></td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>ENGR 300</td>
<td>Engineering Experimentation</td>
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<tr>
<td>ENGR 301</td>
<td>Microelectronics Laboratory</td>
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<td>ENGR 305</td>
<td>Linear Systems Analysis</td>
<td>3</td>
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<tr>
<td>ENGR 353</td>
<td>Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 356 &amp; ENGR 357</td>
<td>Digital Design and Digital Design Laboratory</td>
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GE Area C: Humanities: Literature (C3)  3

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<th>Units</th>
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<td>ENGR 476</td>
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<td>ENGR 478</td>
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<td>GE Area D: Social Sciences (D1)</td>
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<td>CSC 413</td>
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<td>ENGR 378</td>
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<td>ENGR 456</td>
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<td>ENGR 696</td>
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<td>GE Area C: Arts (C1)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tbody>
<tr>
<td>ENGR 697GW</td>
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<tr>
<td>Major Upper Division Electives – Take Two 5</td>
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<tr>
<td>GE Area UD~C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 128-130

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1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE and major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
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4. GE Area UD~B: Upper Division Physical and/or Life Sciences is satisfied upon completion of ENGR 300 and either ENGR 301 or ENGR 302.
5. Students must complete 21 units of upper-division engineering units before registering for ENGR 696.
Major Electives (6 units)
- CSC 415 Operating System Principles (3 units)
- CSC 510 Analysis of Algorithms I (3 units)
- CSC 645 Computer Networks (3 units)
- CSC 648 Software Engineering (3 units)
- CSC 667 Internet Application Design and Development (3 units)
- CSC 668 Advanced Object Oriented Software Design and Development (3 units)
- ENGR 306 Electromechanical Systems (3 units)
- ENGR 350 Introduction to Engineering Electromagnetics (3 units)
- ENGR 442 Operational Amplifier Systems Design (3 units)
- ENGR 446 Control Systems Laboratory (1 unit)
- ENGR 447 Control Systems (3 units)
- ENGR 449 Communication Systems (3 units)
- ENGR 453 Digital Integrated Circuit Design (4 units)
- ENGR 610 Engineering Cost Analysis (3 units)
- ENGR 844 Embedded Systems (3 units)
- ENGR 848 Digital VLSI Design (3 units)
- ENGR 849 Advanced Analog IC Design (3 units)
- ENGR 851 Advanced Microprocessor Architectures (3 units)
- ENGR 852 Advanced Digital Design (3 units)
- ENGR 853 Advanced Topics in Computer Communication and Networks (3 units)
- ENGR 854 Wireless Data Communication Standards (3 units)
- ENGR 856 Nanoscale Circuits and Systems (3 units)
- ENGR 868 Advanced Control Systems (3 units)
- ENGR 869 Robotics (3 units)
Bachelor of Science in Electrical Engineering

Undergraduate Programs in Engineering

Freshman applicants have completed four years of high school mathematics, one year of high school chemistry, and one year of high school physics. Students are also encouraged to include courses in mechanical drawing and computer programming.

Community college transfers should complete the sequence of mathematics, chemistry, physics, and engineering courses listed in freshman and sophomore years under the “sample sequence of courses,” if available at the community college.

The Bachelors of Science in Civil, Computer, Electrical, and Mechanical Engineering require – 127, 128, 129, and 129 semester units, respectively. A minimum of 30 units must be earned in residence at SF State. Of these units, 24 must be upper division courses and 12 of these upper division units must be in the major. Major requirements, including mathematics, chemistry, and physics prerequisites, comprise – 93 units for civil engineering, 94 for computer engineering, 95 for electrical engineering and 95 units for mechanical engineering. For civil engineering, 50 of the required units are lower division and 43 units are upper division. For mechanical engineering, 51 of the required units are lower division and 44 units are upper division. For electrical engineering, 50 of the required units are lower division and 45 units are upper division. For computer engineering, 49 of the required units are lower division and 45 units are upper division. The remaining 33 units satisfy the balance of the university requirements including communication skills and general education in humanities and social sciences. Students are advised that, except for some general education (GE) courses, all courses which are to be counted toward completion of an engineering degree must be taken for a letter grade; the CR/NC option may not be used in this context.

Electrical Engineer

The required upper division courses provide a broad and basic understanding of the main fields in electrical engineering. Upon advisement, each student may choose an area of specialization in the senior year in communications, computers, electronics, control/robotics, or power engineering. Graduates of the electrical engineering program are expected to have, within a few years of graduation:

- Established themselves as practicing professionals or engaged in graduate study in electrical engineering or a related field.
- Demonstrated an ability to be productive and responsible professionals.

The number of units required for graduation (p. 66) and the General Education (p. 82) requirements are described in the Undergraduate Education section of this Bulletin. For information for all engineering students, see Undergraduate Programs in Engineering above.

A number of required and elective lecture courses in the electrical engineering program have corresponding laboratory courses that students are either required or strongly encouraged to take concurrently. These course pairs are:

<table>
<thead>
<tr>
<th>Course Pair</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 205 &amp; ENGR 206</td>
<td>Electric Circuits and Circuits and Instrumentation Laboratory</td>
</tr>
<tr>
<td>ENGR 305 &amp; ENGR 315</td>
<td>Linear Systems Analysis and Systems Analysis Lab</td>
</tr>
<tr>
<td>ENGR 353 &amp; ENGR 301</td>
<td>Microelectronics and Microelectronics Laboratory</td>
</tr>
<tr>
<td>ENGR 356 &amp; ENGR 357</td>
<td>Digital Design and Digital Design Laboratory</td>
</tr>
<tr>
<td>ENGR 415 &amp; ENGR 416</td>
<td>Mechatronics and Mechatronics Lab</td>
</tr>
<tr>
<td>ENGR 447 &amp; ENGR 446</td>
<td>Control Systems and Control Systems Laboratory</td>
</tr>
</tbody>
</table>

Students who drop or withdraw from any of these lecture courses must also drop or withdraw from the corresponding laboratory course, or they will be administratively dropped or withdrawn.

Students must complete 21 units of upper-division engineering units before registering for ENGR 696.

General Education Requirements Met in the Engineering Major (All Concentrations)

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area A3 (Critical Thinking) is satisfied upon completion of ENGR 205 and one of ENGR 201 or ENGR 213.
- Upper Division General Education, Physical and Life Sciences (UD–B) is satisfied upon completion of ENGR 300 and one of ENGR 301 or ENGR 302.

Courses are scheduled during the day as well as in the late afternoon and evening. Other information and assistance in selecting courses can be obtained from a major advisor in the School of Engineering, or by calling (415) 338-1174, by email to engrasss@sfsu.edu, or by writing to:

School of Engineering
San Francisco State University
Science Building
1600 Holloway Avenue
San Francisco, CA 94132.

Electrical Engineering (B.S.) – 93 units minimum

Required Courses (81-83 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 213</td>
<td>Introduction to C Programming for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 206</td>
<td>Circuits and Instrumentation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 290</td>
<td>Modular Elective (consult engineering advisor for approved options)</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 300</td>
<td>Engineering Experimentation</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 301</td>
<td>Microelectronics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 305</td>
<td>Linear Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 306</td>
<td>Electromechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 315</td>
<td>Systems Analysis Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
Bachelor of Science in Electrical Engineering

ENGR 350 Introduction to Engineering Electromagnetics 3
ENGR 353 Microelectronics 3
ENGR 356 Digital Design 3
ENGR 357 Digital Design Laboratory 1
ENGR 442 Operational Amplifier Systems Design 3
ENGR 451 Digital Signal Processing 4
ENGR 478 Design with Microprocessors 4
ENGR 446 Control Systems Laboratory 1
ENGR 447 Control Systems 3
ENGR 449 Communication Systems 3
ENGR 696 Engineering Design Project I 1
ENGR 697GW Engineering Design Project II-GWAR 2
MATH 226 Calculus I 4
MATH 227 Calculus II 4
MATH 228 Calculus III 4
MATH 245 Elementary Differential Equations and Linear Algebra 3

PHYS 220 General Physics with Calculus I and General Physics with Calculus I Laboratory 4
PHYS 230 General Physics with Calculus II 3
PHYS 232 General Physics with Calculus II Laboratory 1
PHYS 240 General Physics with Calculus III 3
PHYS 242 General Physics with Calculus III Laboratory 1

Mechanical Engineering Elective: (3 units)
Select one of the following:
ENGR 201 Dynamics 3
ENGR 203 Materials of Electrical and Electronic Engineering 3
ENGR 204 Engineering Mechanics 3
ENGR 303 Engineering Thermodynamics 3

Upper Division Engineering Electives (9 units)
Choice of upper division electives must present a clearly identifiable educational objective and ensure that the program requirements in engineering science and design are met by all students. Distribution of credit units among engineering science and design is given in the Advising Guide. A study plan of intended upper division electives must be approved by the student’s advisor and the program coordinator prior to the seventh semester of the engineering program.

A total of nine units of upper divisions engineering electives from the following list of courses is required. Students with a GPA of at least 3.0 and the required prerequisites may take graduate courses (numbered 800 and above) with the approval of their advisor or the program coordinator.

ENGR 378 Digital Systems Design 3
ENGR 410 Process Instrumentation and Control 3
ENGR 411 Instrumentation and Process Control Laboratory 1
ENGR 415 Mechatronics 3
ENGR 416 Mechatronics Lab 1
ENGR 445 Analog Integrated Circuit Design 4
ENGR 448 Electrical Power Systems 3
ENGR 453 Digital Integrated Circuit Design 4
ENGR 455 Power Electronics 4
ENGR 456 Computer Systems 3

ENGR 458 Renewable Electrical Power Systems and Smart Grid 3
ENGR 476 Computer Communications Networks 3
ENGR 610 Engineering Cost Analysis 3
ENGR 699 Independent Study 1-3
ENGR 844 Embedded Systems 3
ENGR 848 Digital VLSI Design 3
ENGR 849 Advanced Analog IC Design 3
ENGR 851 Advanced Microprocessor Architectures 3
ENGR 852 Advanced Digital Design 3
ENGR 853 Advanced Topics in Computer Communication and Networks 3
ENGR 854 Wireless Data Communication Standards 3
ENGR 856 Nanoscale Circuits and Systems 3
ENGR 868 Advanced Control Systems 3
ENGR 869 Robotics 3

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: Literature</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

| American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
| Environmentai Sustainability (ES) | LD or UD | 3 |
| Global Perspectives (GP) | LD or UD | 3 |
| Social Justice (SJ) | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

B.S. in Electrical Engineering Roadmap

This link opens the 2017–2018 roadmap in a new tab. (p. 1184)

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring
semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Electrical Engineering Roadmap

129 Total Units Required  
Minimum Number of Units in Major: 95

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 180</td>
<td>Chemistry for the Energy and the Environment or General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>or CHEM 115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td>Units</td>
<td>17-19</td>
</tr>
<tr>
<td>ENGR 213</td>
<td>Introduction to C Programming for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td>Units</td>
<td>17</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 203</td>
<td>Materials of Electrical and Electronic Engineering</td>
<td></td>
</tr>
<tr>
<td>ENGR 204</td>
<td>Engineering Mechanics</td>
<td></td>
</tr>
<tr>
<td>ENGR 303</td>
<td>Engineering Thermodynamics</td>
<td></td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td>Units</td>
<td>17</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 206</td>
<td>Circuits and Instrumentation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 290</td>
<td>Modular Elective</td>
<td>1</td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

1184
### Fifth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 300</td>
<td>Engineering Experimentation</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 305 &amp; ENGR 315</td>
<td>Linear Systems Analysis and Systems Analysis Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 353</td>
<td>Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 356 &amp; ENGR 357</td>
<td>Digital Design and Digital Design Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 301</td>
<td>Microelectronics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 306</td>
<td>Electromechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 442</td>
<td>Operational Amplifier Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 451</td>
<td>Digital Signal Processing</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 478</td>
<td>Design with Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
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<td>3</td>
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</tbody>
</table>

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENGR 446 &amp; ENGR 447</td>
<td>Control Systems Laboratory and Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 449</td>
<td>Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 696</td>
<td>Engineering Design Project I</td>
<td>1</td>
</tr>
<tr>
<td>Major Upper Division Electives – Take One</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 350</td>
<td>Introduction to Engineering Electromagnetics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 697GW</td>
<td>Engineering Design Project II-GWAR</td>
<td>2</td>
</tr>
<tr>
<td>Major Upper Division Electives – Take Two</td>
<td></td>
<td>6-8</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Units**

| Total Units     | 129-134 |

---

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

3. GE Area A: Critical Thinking (A3) is satisfied upon completion of ENGR 205 and ENGR 201 or ENGR 213.

4. Students must complete 21 units of upper-division engineering units before registering for ENGR 696.
**Major Upper Division Electives**
- ENGR 378 Digital Systems Design (3 units)
- ENGR 410 Process Instrumentation and Control (3 units)
- ENGR 411 Instrumentation and Process Control Laboratory (1 unit)
- ENGR 415 Mechatronics (3 units)
- ENGR 416 Mechatronics Lab (1 unit)
- ENGR 445 Analog Integrated Circuit Design (4 units)
- ENGR 448 Electrical Power Systems (3 units)
- ENGR 453 Digital Integrated Circuit Design (4 units)
- ENGR 455 Power Electronics (4 units)
- ENGR 456 Computer Systems (3 units)
- ENGR 458 Renewable Electrical Power Systems and Smart Grid (3 units)
- ENGR 476 Computer Communications Networks (3 units)
- ENGR 610 Engineering Cost Analysis (3 units)
- ENGR 699 Independent Study (1-3 units)
- ENGR 844 Embedded Systems (3 units)
- ENGR 848 Digital VLSI Design (3 units)
- ENGR 849 Advanced Analog IC Design (3 units)
- ENGR 851 Advanced Microprocessor Architectures (3 units)
- ENGR 852 Advanced Digital Design (3 units)
- ENGR 853 Advanced Topics in Computer Communication and Networks (3 units)
- ENGR 854 Wireless Data Communication Standards (3 units)
- ENGR 856 Nanoscale Circuits and Systems (3 units)
- ENGR 868 Advanced Control Systems (3 units)
- ENGR 869 Robotics (3 units)
Bachelor of Science in Mechanical Engineering

Undergraduate Programs in Engineering

Freshman applicants have completed four years of high school mathematics, one year of high school chemistry, and one year of high school physics. Students are also encouraged to include courses in mechanical drawing and computer programming.

Community college transfers should complete the sequence of mathematics, chemistry, physics, and engineering courses listed in freshman and sophomore years under the “sample sequence of courses,” if available at the community college.

The Bachelor of Science in Civil, Computer, Electrical, and Mechanical Engineering require 127, 128, 129, and 129 semester units, respectively. A minimum of 30 units must be earned in residence at SF State. Of these units, 24 must be upper division courses, and 12 of these upper division units must be in the major. Major requirements, including mathematics, chemistry, and physics prerequisites, comprise ~ 93 units for civil engineering, 94 for computer engineering, 95 for electrical engineering, and 95 units for mechanical engineering. For civil engineering, 50 of the required units are lower division and 43 units are upper division. For mechanical engineering, 51 of the required units are lower division and 44 units are upper division. For electrical engineering, 50 of the required units are lower division and 45 units are upper division. For computer engineering, 49 of the required units are lower division and 45 units are upper division. The remaining 33 units satisfy the balance of the university requirements including communication skills and general education in humanities and social sciences. Students are advised that, except for some general education (G.E.) courses, all courses which are to be counted toward completion of an engineering degree must be taken for a letter grade; the CR/NC option may not be used in this context.

Mechanical Engineering

The required courses provide a thorough grounding in the essentials of mechanical engineering. Elective courses taken as part of one of the areas of emphasis allow for specialization. The areas of emphasis currently offered are mechanical design, thermal-fluid systems, and robotics and controls. Graduates of the mechanical engineering program are expected to have, within a few years of graduation:

- Established themselves as practicing professionals or engaged in graduate study in mechanical engineering or a related area.
- Demonstrated an ability to be productive and responsible professionals.
- Acted as representatives of their profession in their communities.

The number of units required for graduation (p. 66) and the G.E. requirements (p. 82) are described in the Undergraduate Education section of this Bulletin. For information common to all engineering students, see Undergraduate Programs in Engineering above.

Courses are scheduled during the day as well as in the late afternoon and evening. Other information and assistance in selecting courses can be obtained from a major advisor in the School of Engineering, or by calling (415) 338-1174, by email to engrasst@sfsu.edu, or by writing to:

School of Engineering
San Francisco State University
Science Building

1600 Holloway Avenue
San Francisco, CA 94132.

General Education Requirements Met in the Engineering Major (All Concentrations)

The requirements below are deemed “met in the major” upon completion of the courses listed (even though the courses and their prerequisites are not approved for GE). This is true whether or not the student completes the major.

- Area A3 (Critical Thinking) is satisfied upon completion of ENGR 205 and one of ENGR 201 or ENGR 213.
- Upper Division General Education, Physical and Life Sciences (UD-B) is satisfied upon completion of ENGR 300 and one of ENGR 301 or ENGR 302.

Mechanical Engineering (B.S.) — 93 units minimum

Required Courses (80-82 Units)

- CHEM 115 General Chemistry I: Essential Concepts of Chemistry or CHEM 180 Chemistry for the Energy and the Environment 3-5
- ENGR 100 Introduction to Engineering 1
- ENGR 101 Engineering Graphics 1
- ENGR 102 Statics 3
- ENGR 103 Introduction to Computers 1
- ENGR 200 Materials of Engineering 3
- ENGR 201 Dynamics 3
- ENGR 205 Electric Circuits 3
- ENGR 206 Circuits and Instrumentation Laboratory 1
- ENGR 290 Modular Elective (one unit course taken three times) 3
- ENGR 300 Engineering Experimentation 3
- ENGR 302 Experimental Analysis 1
- ENGR 303 Engineering Thermodynamics 3
- ENGR 304 Mechanics of Fluids 3
- ENGR 305 Linear Systems Analysis 3
- ENGR 309 Mechanics of Solids 3
- ENGR 364 Materials and Manufacturing Processes 3
- ENGR 463 Thermal Power Systems 3
- ENGR 464 Mechanical Design 3
- ENGR 467 Heat Transfer 3
- ENGR 696 Engineering Design Project I 1
- ENGR 697GW Engineering Design Project II-GWAR 2
- MATH 226 Calculus I 4
- MATH 227 Calculus II 4
- MATH 228 Calculus III 4
- MATH 245 Elementary Differential Equations and Linear Algebra 3
- PHYS 220 General Physics with Calculus I 4
- & PHYS 222 and General Physics with Calculus I Laboratory
- PHYS 230 General Physics with Calculus II 4
- & PHYS 232 and General Physics with Calculus II Laboratory
- PHYS 240 General Physics with Calculus III 3
### Emphasis Elective (4 Units)
Units selected from the following, depending on the area of emphasis:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 410</td>
<td>Process Instrumentation and Control</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 411</td>
<td>Instrumentation and Process Control Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 447</td>
<td>Control Systems &amp; ENGR 446</td>
<td>4</td>
</tr>
</tbody>
</table>

### Upper Division Engineering Electives (9 Units)
Choice of upper division electives must present a clearly identifiable educational objective and ensure that the program requirements in engineering science and design are met by all students. Distribution of credit units among engineering science and design is given in the Advising Guide. A study plan of intended upper division electives must be approved by the student's advisor and the program coordinator prior to the seventh semester of the engineering program.

A total of nine units from the following list of courses is required, subject to the minimum number of units specified for each group. Courses selected for the controls (emphasis) elective may not be double-counted as upper-division electives.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 306</td>
<td>Electromechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 410</td>
<td>Process Instrumentation and Control</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 411</td>
<td>Instrumentation and Process Control Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 415</td>
<td>Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 416</td>
<td>Mechatronics Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 432</td>
<td>Finite Element Methods in Structural and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Continuum Mechanics</td>
<td></td>
</tr>
<tr>
<td>ENGR 441</td>
<td>Fundamentals of Composite Materials</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 446</td>
<td>Control Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 447</td>
<td>Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 461</td>
<td>Mechanical and Structural Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 465</td>
<td>Principles of HVAC</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 466</td>
<td>Gas Dynamics and Boundary Layer Flow</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 468</td>
<td>Applied Fluid Mechanics and Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 469</td>
<td>Alternative and Renewable Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 610</td>
<td>Engineering Cost Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 699</td>
<td>Independent Study</td>
<td>1-2</td>
</tr>
<tr>
<td>ENGR 820</td>
<td>Energy Resources and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 863</td>
<td>Advanced Thermal-fluids</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 865</td>
<td>Energy-Efficient Buildings</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 866</td>
<td>Air Quality Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 867</td>
<td>Energy Auditing and Measurement and Verification</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 871</td>
<td>Advanced Electrical Power Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
</tbody>
</table>

### General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer, doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government

### SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial</td>
<td>LD or UD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Minorities (AERM)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Sustainability</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(ES)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.
• a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Mechanical Engineering Roadmap

129 Total Units Required  
Minimum Number of Units in Major: 95

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 180</td>
<td>Chemistry for the Energy and the Environment or General Chemistry I: Essential Concepts of Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>or CHEM 115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Engineering Graphics</td>
<td>1</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15-17</td>
</tr>
<tr>
<td>ENGR 103</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ENGR 102</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 200</td>
<td>Materials of Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>ENGR 201</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 205 &amp; ENGR 206</td>
<td>Electric Circuits and Circuits and Instrumentation Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 290</td>
<td>Modular Elective</td>
<td>1</td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ENGR 290</td>
<td>Modular Elective</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 300</td>
<td>Engineering Experimentation</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 303</td>
<td>Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 305</td>
<td>Linear Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 309</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>Units</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 290</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ENGR 302</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ENGR 304</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 364</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Electives 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 446</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; ENGR 447</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or ENGR 410 and ENGR 411</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 464</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 467</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 696</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>17</td>
<td></td>
</tr>
<tr>
<td><strong>Eighth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 463</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGR 697GW</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Major Upper Division Electives – Take Two 5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GE Area UD~C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD~D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td>17</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>129-131</td>
<td></td>
</tr>
</tbody>
</table>

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

3. GE Area A: Critical Thinking (A3) is satisfied upon completion of ENGR 205 and ENGR 201 or ENGR 213.

4. Students must complete 21 units of upper-division engineering units before registering for ENGR 696.
Upper Division Major Electives (9 units)
ENGR 306 Electromechanical Systems (3 units)
ENGR 410 Process Instrumentation and Control (3 units)
ENGR 411 Instrumentation and Process Control Laboratory (1 unit)
ENGR 415 Mechatronics (3 units)
ENGR 416 Mechatronics Lab (1 unit)
ENGR 432 Finite Element Methods in Structural and Continuum Mechanics (3 units)
ENGR 441 Fundamentals of Composite Materials (3 units)
ENGR 446 Control Systems Laboratory (1 unit)
ENGR 447 Control Systems (3 units)
ENGR 461 Mechanical and Structural Vibrations (3 units)
ENGR 465 Principles of HVAC (3 units)
ENGR 466 Gas Dynamics and Boundary Layer Flow (3 units)
ENGR 468 Applied Fluid Mechanics and Hydraulics (3 units)
ENGR 469 Alternative and Renewable Energy Systems (3 units)
ENGR 610 Engineering Cost Analysis (3 units)
ENGR 699 Independent Study (1-3 units)
ENGR 820 Energy Resources and Sustainability (3 units)
ENGR 863 Advanced Thermal-fluids (3 units)
ENGR 865 Energy-Efficient Buildings (3 units)
ENGR 866 Air Quality Engineering (3 units)
ENGR 867 Energy Auditing and Measurement and Verification (3 units)
ENGR 871 Advanced Electrical Power Systems (3 units)
Minor in Civil Engineering

The purpose of the Minor in Civil Engineering is to give students with sufficient background in mathematics, physics, and chemistry, a fundamental understanding of the field of civil engineering. The minor should be of special interest to students in Geosciences (foundations and earthquake), Environmental Studies, Physics, Mathematics, Computer Science, and other engineering fields. Students interested in the Civil Engineering minor must meet with the program coordinator and complete the Civil Engineering Minor Program Approval Form. Revision of the form requires the approval of the program coordinator.

Civil Engineering Minor – 21 units

Prerequisite Requirements (21 units)
The minor is intended for students who have satisfied the following prerequisite requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics with Calculus I Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 240</td>
<td>General Physics with Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 241</td>
<td>General Physics with Calculus III Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

The minor may be satisfied by a minimum of 21 units (not including prerequisite units) distributed as follows.

Core Requirements (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 121</td>
<td>Introduction to C Programming for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 205</td>
<td>Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 206</td>
<td>Circuits and Instrumentation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 356</td>
<td>Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 357</td>
<td>Digital Design Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 478</td>
<td>Design with Microprocessors</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (6 units)

Approved upper division civil engineering courses, all within one of the civil engineering focus areas. No upper division course from the major can be double-counted toward meeting the elective requirements of the minor or second major. There must be prior approval from the program head.

To earn the Minor in Civil Engineering, a student must complete at least 12 of the required 21 core and elective units at SF State. Each of the courses in the minor must be taken for a letter grade (CR/NC is not acceptable).

Minor in Electrical Engineering

The purpose of the Minor in Electrical Engineering is to give students in other fields of study a good basic background in electrical engineering. The 16-unit core provides an introduction to four basic areas of modern electrical engineering – basic electrical circuit theory, electronics, linear signals and systems, and digital logic and computer architecture. Elective courses provide opportunities for additional breadth or depth in a particular area. Students interested in the electrical engineering minor must meet with the program coordinator and complete the Electrical Engineering Minor Program Approval Form. Revision of the form requires the approval of the program coordinator.

Electrical Engineering Minor – 22 units

Prerequisite Requirements (23 units)
The minor is intended for students who have satisfied the following prerequisite requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

San Francisco State University Bulletin 2017-2018
The minor may be satisfied by a minimum of 22 units (not including prerequisite units) distributed as follows:

**Core Requirements (16 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 205</td>
<td>Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 206</td>
<td>Circuits and Instrumentation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 315</td>
<td>Systems Analysis Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 353</td>
<td>Microelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 301</td>
<td>Microelectronics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 356</td>
<td>Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 357</td>
<td>Digital Design Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Electives (6 units)**

Approved upper division electrical engineering courses. No upper division course from the major can be double-counted toward meeting the elective requirements of the minor or second major. There must be prior approval from the program head.

To earn the Minor in Electrical Engineering, a student must complete at least 12 of the required 22 core and elective units at SF State. Each of the courses in the minor must be taken for a letter grade (CR/NC is not acceptable).

**Minor in Mechanical Engineering**

The purpose of the Minor in Mechanical Engineering is to give students from science and other branches of engineering the opportunity to learn the fundamentals of mechanical engineering, to broaden their understanding of science and engineering, and to prepare them for new technological developments such as material science and nanotechnology. Additional knowledge in control and robotics, mechanical design, or thermal-fluids may be acquired through electives. Students interested in the Minor in Mechanical Engineering must meet with the program coordinator and complete the Mechanical Engineering Minor Program Approval Form. Revision of the form requires the approval of the program coordinator.

**Mechanical Engineering, Minor – 21 units**

**Prerequisite Requirements (32 units)**

The minor is intended for students who have satisfied the following prerequisite requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives (6 units)**

Approved upper division Mechanical Engineering courses, all within one of the Mechanical Engineering Focus areas. No upper division course from the major can be double-counted towards meeting the elective requirements of the minor or second major. There must be prior approval from the program head.

To earn the Minor in Mechanical Engineering, a student must complete at least 12 of the required 21 core and elective units at SF State. Each of the courses in the minor must be taken for a letter grade (CR/NC is not acceptable).

**Master of Science in Engineering: Concentration in Embedded Electrical and Computer Systems**

**Admission to the Program**

Applicants must hold a bachelor’s degree in engineering, or a closely related discipline, with a minimum GPA of 3.0 in upper division major classes in addition to meeting general university requirements for graduate standing. The School of Engineering also requires two letters of recommendation from persons familiar with the student’s previous academic work or professional accomplishments. Graduate Record Exam (GRE) scores within the last three years are also required. A minimum score of 550 on the paper exam or 213 on the computer-based TOEFL is required for graduate applicants whose preparatory education was principally in a language other than English.

**Advancement to Candidacy**

The applicant is advanced to candidacy when the Advancement to Candidacy (ATC) has been signed and approved by the Dean of the Graduate Division.

**Written English Proficiency Requirements**

**Level One**

As a preadmission requirement, applicants must have satisfied one of the following:

1. a score of at least 4.0/6.0 on the GRE or GMAT Analytic Writing Assessment;
2. a score of at least 4.5/6.0 on the essay test of the paper-based [PBT]
   TOEFL (a minimum score of 24/30 on the Writing section of the
   Internet-based test [IBT] TOEFL);
3. a score of at least 6.5/9.0 on the IELTS writing test, or a concordant
   score on the Pearson Test of English.

An applicant that does not meet the above requirement may be
conditionally accepted to the program but must complete SCI 614 within
the first year of attendance at SF State in order to meet the Level One
requirement. SCI 614 does not count toward the 30 unit MS course work
requirement.

Level Two

is satisfied by the completion of a written thesis (ENGR 898) or research
project (ENGR 895).

Curriculum

The Master of Science in Engineering is based on 30 semester units of
which at least 21 units must be earned from graduate level courses. We
expect that the graduate coordinator will work closely with individual
students to develop a curriculum plan that ensures academic rigor while
at the same time meeting the needs of the student. The curriculum
includes 12 units of required engineering courses and a minimum of 6
units of elective engineering courses. A maximum of 6 units of elective
non-engineering courses may be applied to the degree requirements with
the consent of the graduate coordinator if they are consistent with the
student’s overall career objectives as provided in the program of study.
There are two options for the culminating experience. One option is to
first take a 3-unit research course (ENGR 897), and then a 3-unit thesis
course (ENGR 898). The other option is to take a 3-unit applied research
project course (ENGR 895).

Engineering (M.S.): Concentration in
Embedded Electrical and Computer
Systems – Minimum 30 units

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 800</td>
<td>Engineering Communications</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 801</td>
<td>Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 844</td>
<td>Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 852</td>
<td>Advanced Digital Design</td>
<td>3</td>
</tr>
</tbody>
</table>

The aggregate of courses that comprise the core of this concentration
is designed to give students a broad foundation in general areas of
engineering project management and engineering communications, and
in embedded systems. These courses are aimed to provide our students
opportunities for career advancement in their profession.

Elective Engineering Courses (6 - 15 units)

Elective technical engineering courses are selected from the following list
upon approval of the graduate coordinator.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 447</td>
<td>Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>&amp; ENGR 446</td>
<td>and Control Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENGR 449</td>
<td>Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 451</td>
<td>Digital Signal Processing</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 456</td>
<td>Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 476</td>
<td>Computer Communications Networks</td>
<td></td>
</tr>
<tr>
<td>ENGR 478</td>
<td>Design with Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 848</td>
<td>Digital VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 849</td>
<td>Advanced Analog IC Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 850</td>
<td>Digital Design Verification</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 851</td>
<td>Advanced Microprocessor Architectures</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 853</td>
<td>Advanced Topics in Computer Communication and Networks</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 854</td>
<td>Wireless Data Communication Standards</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 856</td>
<td>Nanoscale Circuits and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 868</td>
<td>Advanced Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 869</td>
<td>Robotics</td>
<td>3</td>
</tr>
</tbody>
</table>

A program cannot contain more than 9 units of courses with a course
number below 700. Some upper division engineering courses may also
be used as electives if not used in the undergraduate degree program and
approved by the graduate coordinator.

Non-Engineering Electives (0 - 6 units)

Courses, either graduate or upper-division, selected primarily from
science, mathematics, social science, or business, upon approval of the
graduate coordinator.

Culminating Experience (3 - 6 units)

Units selected from one of the options below

Option A

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 897</td>
<td>Research</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ENGR 898</td>
<td>and Master’s Thesis (thesis may not be started</td>
<td></td>
</tr>
<tr>
<td></td>
<td>until completion of 12 units of graduate course work and ENGR 897)</td>
<td></td>
</tr>
</tbody>
</table>

Option B

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 895</td>
<td>Applied Research Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(project may not be started</td>
<td></td>
</tr>
<tr>
<td></td>
<td>until completion of 12 units of graduate course work)</td>
<td></td>
</tr>
</tbody>
</table>

Master of Science in Engineering:
Concentration in Energy Systems

Admission to the Program

Applicants must hold a bachelor’s degree in engineering, or a closely
related discipline, with a minimum GPA of 3.0 in upper division major
classes, in addition to meeting general university requirements for
graduate standing. The School of Engineering also requires two letters
of recommendation from persons familiar with the student’s previous
academic work or professional accomplishments. Graduate Record Exam
(GRE) scores within the last three years are also required. A minimum
score of 550 on the paper exam or 213 on the computer-based TOEFL
is required for graduate applicants whose preparatory education was
principally in a language other than English.

Advancement to Candidacy

The applicant is advanced to candidacy when the Advancement to
Candidacy (ATC) has been signed and approved by the Dean of the
Graduate Division.
Written English Proficiency Requirements

Level One
As a preadmission requirement, applicants must have satisfied one of the following:
1. a score of at least 4.0/6.0 on the GRE or GMAT Analytic Writing Assessment;
2. a score of at least 4.5/6.0 on the essay test of the paper-based [PBT] TOEFL (a minimum score of 24/30 on the Writing section of the Internet-based test [iBT] TOEFL);
3. a score of at least 6.5/9.0 on the IELTS writing test, or a concordant score on the Pearson Test of English.

An applicant that does not meet the above requirement may be conditionally accepted to the program but must complete SCI 614 within the first year of attendance at SF State in order to meet the Level One requirement. SCI 614 does not count toward the 30 unit MS course work requirement.

Level Two
The Level Two English Proficiency Requirement is satisfied by the completion of a written thesis (ENGR 898) or research project (ENGR 895).

Curriculum
The Master of Science in Engineering is based on 30 semester units of which at least 21 units must be earned from graduate level courses. We expect that the graduate coordinator will work closely with individual students to develop a curriculum plan that ensures academic rigor while at the same time meeting the needs of the student. The curriculum includes 12 units of required engineering courses and a minimum of 6 units of elective engineering courses. A maximum of 6 units of elective non-engineering courses may be applied to the degree requirements with the consent of the graduate coordinator, if they are consistent with the student’s overall career objectives as provided in the program of study. There are two options for the culminating experience. One option is to first take a 3-unit research course (ENGR 897), and then a 3-unit thesis course (ENGR 898). The other option is to take a 3-unit applied research project course (ENGR 895).

Engineering (M.S.): Concentration in Energy Systems — Minimum 30 units

Required Courses (12 units)
- ENGR 800 Engineering Communications 3
- ENGR 801 Engineering Management 3
- ENGR 820 Energy Resources and Sustainability 3
- ENGR 863 Advanced Thermal-Fluids 3

The aggregate of courses that comprise the core of this concentration is designed to give students a broad foundation in general areas of engineering project management and engineering communications, and in Energy Systems. These courses are aimed to provide our students opportunities for career advancement in their profession.

Elective Engineering Courses (6–15 units)
- ENGR 448 Electrical Power Systems 3
- ENGR 458 Renewable Electrical Power Systems and Smart Grid 3
- ENGR 463 Thermal Power Systems 3

A program cannot contain more than 9 units of courses with a course number below 700. Some upper division engineering courses may be used as electives if not used in the undergraduate degree program and if approved by the graduate coordinator.

Non-Engineering Electives (0–6 units)
Courses, either graduate or upper-division, selected primarily from science, mathematics, social science, or business, upon approval of the graduate coordinator.

Culminating Experience (3–6 units)
Units selected from one of the options below

Option A
- ENGR 897 & ENGR 898 Research and Master’s Thesis (thesis may not be started until completion of 12 units of graduate course work and ENGR 897) 6

Option B
- ENGR 895 Applied Research Project (project may not be started until completion of 12 units of graduate course work) 3

Master of Science in Engineering: Concentration in Structural/Earthquakes

Admission to the Program
Applicants must hold a bachelor’s degree in engineering, or a closely related discipline, with a minimum GPA of 3.0 in upper division major classes, in addition to meeting general university requirements for graduate standing. The School of Engineering also requires two letters of recommendation from persons familiar with the student’s previous academic work or professional accomplishments. Graduate Record Exam (GRE) scores within the last three years are also required. A minimum score of 550 on the paper exam or 213 on the computer-based TOEFL is required for graduate applicants whose preparatory education was principally in a language other than English.

Advancement to Candidacy
The applicant is advanced to candidacy when the Advancement to Candidacy (ATC) has been signed and approved by the Dean of the Graduate Division.

Written English Proficiency Requirements

Level One
As a preadmission requirement, applicants must have satisfied one of the following:
Master of Science in Engineering: Concentration in Structural/Earthquakes

1. a score of at least 4.0/6.0 on the GRE or GMAT Analytic Writing Assessment;
2. a score of at least 4.5/6.0 on the essay test of the paper-based [PBT] TOEFL (a minimum score of 24/30 on the Writing section of the Internet-based test [IBT] TOEFL);
3. a score of at least 6.5/9.0 on the IELTS writing test, or a concordant score on the Pearson Test of English.

An applicant that does not meet the above requirement may be conditionally accepted to the program but must complete SCI 614 within the first year of attendance at SF State in order to meet the Level One requirement. SCI 614 does not count toward the 30 unit MS course work requirement.

**Level Two**
is satisfied by the completion of a written thesis (ENGR 898) or research project (ENGR 895).

**Curriculum**
The Master of Science in Engineering is based on 30 semester units of which at least 21 units must be earned from graduate level courses. We expect that the graduate coordinator will work closely with individual students to develop a curriculum plan that ensures academic rigor while at the same time meeting the needs of the student. The curriculum includes 12 units of required engineering courses and a minimum of 6 units of elective engineering courses. A maximum of 6 units of elective non-engineering courses may be applied to the degree requirements with the consent of the graduate coordinator if they are consistent with the student’s overall career objectives as provided in the program of study. There are two options for the culminating experience. One option is to first take a 3-unit research course (ENGR 897), and then a 3-unit thesis course (ENGR 898). The other option is to take a 3-unit applied research project course (ENGR 895).

**Engineering (M.S.): Concentration in Structural/Earthquakes – Minimum 30 units**

**Required Courses (12 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 800</td>
<td>Engineering Communications</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 801</td>
<td>Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 833</td>
<td>Principles of Earthquake Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 836</td>
<td>Structural Design for Earthquakes</td>
<td>3</td>
</tr>
</tbody>
</table>

The aggregate of courses that comprise the core of this concentration is designed to give students a broad foundation in general areas of engineering project management and engineering communications, and in Structural/Earthquake Engineering. These courses are aimed to provide our students opportunities for career advancement in their profession.

**Engineering Electives (6 – 15 units)**
Units selected on advisement from the following.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 425</td>
<td>Reinforced Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 426</td>
<td>Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 427</td>
<td>Wood Structures</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 431</td>
<td>Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 461</td>
<td>Mechanical and Structural Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 825</td>
<td>Bridge Engineering and Prestress Reinforced Concrete Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

**ENGR 826** Seismic Hazard Analysis 3
**ENGR 827** Structural Design for Fire Safety 3
**ENGR 828** Seismic Isolation and Energy Dissipation 3
**ENGR 829** Advanced Topics in Structural Engineering 3
**ENGR 830** Finite Element Methods in Structural Continuum Mechanics 3
**ENGR 831** Advanced Concrete Structures 3
**ENGR 832** Advanced Topics in Seismic Design 3
**ENGR 835** Advanced Steel Structures 3
**ENGR 837** Geotechnical Earthquake Engineering 3

A program cannot contain more than 9 units of courses with a course number below 700. Some upper division engineering courses may also be used as electives if not used in the undergraduate degree program and approved by the Graduate Coordinator.

**Non-Engineering Electives (0 – 6 units)**
Courses, either graduate or upper division, selected primarily from science, mathematics, social science, or business, upon approval of the graduate coordinator.

**Culminating Experience (3 – 6 units)**
Units selected from one of the options below

**Option A**
ENGR 897 & ENGR 898 Research and Master’s Thesis (thesis may not be started until completion of 12 units of graduate course work and ENGR 897) 6

**Option B**
ENGR 895 Applied Research Project (project may not be started until completion of 12 units of graduate course work) 3
The Master of Arts in Geography (http://geog.sfsu.edu/ma) is designed for individuals pursuing careers in environmental planning, monitoring and advocacy; in resource management; in geographic techniques; in community college teaching; or for individuals preparing for doctoral work in geography. The graduate curriculum ensures all students have grounding in both physical and human geography and offers opportunities for specialization in physical geography, natural resource management, environmental studies, regional geography and techniques. The Concentration in Resource Management and Environmental Planning (http://geog.sfsu.edu/marmep) provides the knowledge and skills necessary to carry out impact analysis, plan formulation and implementation.

The Master of Science in Geographical Information Science (http://geog.sfsu.edu/msgis) (GISc) program prepares graduate students for advanced careers in a wide range of geospatial information research and applications. Geographic information science encompasses the development, use, and applications of geographic information systems (GIS), cartography, remote sensing, global positioning systems (GPS), and spatial statistics. A student completing this program will be prepared to take on advanced technical and leadership roles in environmental and resource agencies and firms employing GIS, remote sensing and other geospatial technologies.

The M.A. and M.S. programs culminate in either a master’s thesis or a research project and comprehensive oral examination.

Facilities
Research facilities (http://geog.sfsu.edu/content/research) available to students include a geographic analysis teaching lab (HSS 290), an environmental science teaching lab (HSS 383), a physical geography lab, a map library, campus computer laboratories, and the main library. The Institute for Geographic Information Science (http://gis.sfsu.edu) provides further resources and research opportunities. The department maintains licenses for industry-standard software such as ArcGIS, QGIS, R, ERDAS Imagine, ENVI, E-cognition, QT Modeler, PhotoScan, Trimble, and other geospatial software. The department cannot guarantee funding to incoming graduate students. The department occasionally offers technical positions and graduate assistant opportunities to graduate students in residence, and funding may be available from external grants and campus financial aid resources.

The undergraduate and graduate degrees offered by the Department of Geography & Environment provide excellent preparation for a variety of positions in the public or private sector. Graduates find challenging and interesting careers in environmental and planning agencies at the state and local level, environmental consulting and cartographic firms, and nonprofit organizations, as well as in community college teaching. A growing demand for students trained in GIS and environmental science make geography and environmental science students with appropriate skills highly marketable.

Professors
Davis, Henderson, Hines, Liu, Oliphant, Wilkinson

Associate Professors
Blecha, Blesius, Chitewere, Donovan, Guo

Assistant Professor
Nanus
Adjunct Faculty
Menning, Vance

Majors
• Bachelor of Arts in Geography (p. 1199)
• Bachelor of Science in Environmental Science (p. 1209)

Minor
• Minor in Geography (p. 1214)

Masters
• Master of Arts in Geography (p. 1214)
• Master of Arts in Geography: Concentration in Resource Management and Environmental Planning (p. 1215)
• Master of Science in Geographic Information Science (p. 1216)

Bachelor of Arts in Geography

Geography (B.A.) – Minimum 39 Units

Required Core Courses (12 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>The Human Environment</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 107</td>
<td>World Regions and Interrelations</td>
<td></td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Geographical Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 500GW</td>
<td>Physical and Human Dimensions of Climate</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Change-GWAR</td>
<td></td>
</tr>
</tbody>
</table>

Capstone (3 Units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 690</td>
<td>Senior Seminar in Geography and Environmental Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Distribution Requirement (12–15 Units)

(Cross-listed courses originating in other departments are not accepted in these categories.)

One course from each of the following four areas:
• Physical Environment – 310–399 numbered courses in Geography
• Human Geography – 400 level courses in Geography
• Human-Environment Interaction in a Regional Context

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 550</td>
<td>Geography of the United States and Canada</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 552</td>
<td>Geography of California</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 575</td>
<td>Emerging China</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 646</td>
<td>The Geography of Marine Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 647</td>
<td>Geography of Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 648</td>
<td>Management of National Parks and Protected Areas</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/USP 651</td>
<td>San Francisco Bay Area Environmental Issues</td>
<td>4</td>
</tr>
</tbody>
</table>

• Either Geographical Techniques – 601–639 numbered courses in Geography or Applied Geography – 640–668 numbered courses in Geography

Focus of Interest (12 units)

Units of upper division geography electives consisting of a minimum of three courses chosen on advisement. These courses will be organized around coherent themes such as those listed below. In addition, alternative concentrations tailored to individual student interest may be developed in consultation with the Geography undergraduate advisor. On advisement, appropriate upper division courses from other departments and programs may be included.

• Human Geography
• Environmental Studies
• Physical Environment
• Resource Management
• Techniques of Geographic Analysis
• Urban Environment, Transportation, and Land Use
• Focused individual interest pursued in consultation with the undergraduate advisor

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Foci of Interest

Focus on Human Geography

In addition to serving traditional liberal arts education, this option permits systematic study within cultural geography:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 422</td>
<td>Environmental Perception</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/WGS 423</td>
<td>Geographic Perspectives on Gender, Environment, and Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 425</td>
<td>Economic Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 427</td>
<td>Agriculture and Food Supply</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 430</td>
<td>Transforming Food and Agriculture Systems: Local to Global</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/USP 432</td>
<td>Urban Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/H ED 434</td>
<td>Geographies of Health and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/IR 445</td>
<td>Geopolitics and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 454</td>
<td>San Francisco on Foot</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Geography of Ethnic Communities</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a 500 level course 3

Focus on Environmental Studies

This focus provides students with an opportunity to learn about environmental processes and issues arising from human activities on our planet.

Required

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG/ENVS 600</td>
<td>Environmental Problems and Solutions</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 316</td>
<td>Biogeography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 317</td>
<td>Geography of Soils</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 422</td>
<td>Environmental Perception</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 427</td>
<td>Agriculture and Food Supply</td>
<td>4</td>
</tr>
<tr>
<td>GEOG/ERTH 642</td>
<td>Watershed Assessment and Restoration</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 644</td>
<td>Water Quality</td>
<td>3</td>
</tr>
</tbody>
</table>
Supplementary courses in Earth & Climate Sciences and Biology are recommended on advisement

**Focus on Techniques of Geographic Analysis**
This option concentrates on technical skills:

- **Data Acquisition in the field**
  - GEOG 601 Field Methods in Human Geography 3
  - GEOG 602 Field Methods in Physical Geography 4

- **Data Analysis in the lab**
  - (such as remote sensing)
  - GEOG 610 Remote Sensing of the Environment I 4
  - GEOG 611 Remote Sensing of the Environment II 4

- **Geographic Information Systems**
  - GEOG 603 Introduction to Geographic Information Systems 3
  - GEOG 620 Geographical Information Systems 4
  - GEOG 621 Geographic Information Systems for Environmental Analysis 4
  - GEOG 625 Programming for Geographic Information Science 4
  - GEOG 629 Coastal and Marine Applications of GIS 3

- **Data Display in Cartography**
  - GEOG 606 Cartography 4

- **Internship**
  - (strongly recommended)
  - GEOG 688 Geographic Internship 2-6

**Focus on Urban Environment, Transportation, and Land Use**
This specialization offers an opportunity to acquire foundation knowledge to prepare for entry level careers and graduate work. Key courses include:

- GEOG 422 Environmental Perception 3
- GEOG/WGS 423 Geographic Perspectives on Gender, Environment, and Development 3
- GEOG 425 Economic Geography 3
- GEOG 427 Agriculture and Food Supply 4
- GEOG 432/432 Urban Geography 4
- GEOG/USP 433 Urban Transportation 4
- GEOG/H ED 434 Geographies of Health and Health Care 3
- GEOG 435 Geography of Global Transportation 4
- GEOG 455 Geography of Ethnic Communities 3
- GEOG 601 Field Methods in Human Geography 3
- GEOG 603 Introduction to Geographic Information Systems 3
- GEOG/USP 651 San Francisco Bay Area Environmental Issues 4
- GEOG/USP 652 Environmental Impact Analysis 4
- GEOG/USP 658 Land-Use Planning 4
- GEOG 666 Geography of Garbage: Recycling and Waste Reduction 3
- GEOG 667/ USP 515 Environmental Justice: Race, Poverty, and the Environment 4

Upper division courses in Urban Studies are particularly appropriate as well.

**Focus based on individual interests**
This focus may be pursued in consultation with a geography major advisor.
highly recommended courses
GEOG 603 Introduction to Geographic Information Systems 3
GEOG 688 Geographic Internship 2-6

Complementary Studies
All Bachelor of Arts students must complete 12 units of complementary studies in courses outside the primary prefix for the major, and not cross-listed with the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the complementary studies requirement.

An additional way to satisfy the complementary studies requirement for students in the geography major is to meet with an advisor to identify courses other than GEOG, and not cross-listed with GEOG, that would serve to complement each student’s area of interest. Four units from complementary studies will also double-count toward units in the major.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can be best be applied to this requirement in order to ensure degree completion within 60 units.

Students are advised that the CR grade is acceptable in any two courses to be counted for the geography major. No more than one course counted toward major requirements may be completed with a grade less than a C-

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

Physical and/or Life Science
Arts and/or Humanities
Social Sciences

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)
Environmental Sustainability (ES)
Global Perspectives (GP)
Social Justice (SJ)

Note: LD = Lower Division; UD = Upper Division.

Transfer Student Roadmap (2 Year)
For students with an AA-T in Geography. This roadmap opens in a new tab. (p. 1207)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Geography

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student.

However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:
• How many lower-division units required for the major have been
completed upon entry based on award of a specific ADT;
• Which lower-division requirements are considered complete upon
entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four
semesters.

Students who have earned an ADT should seek advising in the major
department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or
electives for this major as possible.

2. The following courses are not required for admission, but are required
for graduation. Students are strongly encouraged to complete these
units before transfer; doing so will provide more flexibility in course
selection after transfer.
• a course in U.S. History
• a course in U.S. & California Government
• a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and
(2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes
options include more than one college. Use ASSIST to determine:
• Which courses at a CCC satisfy any lower division major requirements
for this major, including 2nd-semester composition;
• Which courses at a CCC satisfy CSU GE, US History, and US & CA
Government.

Remedial courses are not transferable and do not apply to the minimum
60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the
minimum 60 units required for upper division transfer (for example, if
course was not passed on the first attempt, or was taken to earn a better
grade).

Before leaving the last California community college of attendance,
obtain a summary of completion of lower division General Education
units (IGETC or CSU GE Breadth). This is often referred to as a GE
certification worksheet. SF State does not require delivery of this
certification to Admissions, but students should retain this document for
verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or
College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP
examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and
mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to
students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs
or CSUs

Review SF State’s lower division General Education requirements.
Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State’s lower division GE pattern are
available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking
(GE A3) may not be widely offered outside the CCC and CSU systems.
Students should attempt to identify and take an appropriate course no
later than the term of application to the CSU. To review more information
about the A3 requirement, please visit http://bulletin.sfsu.edu/
undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition
course before transfer. This is usually the next course after the typical
“freshman comp” course, with a focus on writing, reading and critical
analytical skills for academic purposes, and developing skills in
composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets
both US and CA/local government requirements may be an appropriate
option, particularly if transferring from outside of California.

All students must meet the transfer eligibility
requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more
quarter units
• Earn a college grade point average of 2.00 or better in all transferable
courses. Non-local area residents may be held to a higher GPA
standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education,
including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with
intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable
semester units (90 quarter units) must be completed by the spring
semester prior to fall admission, or by the fall semester prior to spring
admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Geography Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 39

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) ²</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Quantitative Reasoning (B4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
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<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ³</td>
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<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 102 or GEOG 107</td>
<td>The Human Environment or World Regions and Interrelations</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective ³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3) ⁴</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Geographic Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ³</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 500GW</td>
<td>Physical and Human Dimensions of Climate Change - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Distribution Requirement (12-15 units) ⁵</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Focus of Interest (12 units) ⁶</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective ³</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>Distribution Requirement (12-15 units) ⁵</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Focus of Interest (12 units) ⁶</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two ³</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirement (12-15 units) ⁵</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Focus of Interest (12 units) ⁶</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

| Eighth Semester | Units |
| GEOG 690 | Senior Seminar in Geography and Environmental Science | 3 |
| Distribution Requirement (15 units) – Take Two | 6 |
| Focus of Interest (12 units) | 3 |
| Complementary Studies or SF State Studies or University Elective | 3 |

| Units | 15 |
| Total Units | 120-121 |

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**
   All Bachelor of Arts students must complete 12 units of complementary studies in courses outside the primary prefix for the major, and not cross-listed with the primary prefix for the major. Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. An additional way to satisfy the complementary studies requirement for students in the geography major is to meet with an advisor to identify courses other than GEOG, and not cross-listed with GEOG, that would serve to complement each student’s area of interest. Four units from complementary studies will also double-count toward units in the major.
   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units. Students are advised that the CR grade is acceptable in any two courses to be counted for the geography major. No more than one course counted toward major requirements may be completed with a grade less than a C-.

4. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

5. **Distribution Requirement (12-15 units)**
   (Cross-listed courses originating in other departments are not accepted in these categories.)
   One course from each of the following four areas:
   - Physical Environment – 310–399 numbered courses in Geography
   - Human Geography – 400 level courses in Geography
   - Human-Environment Interaction in a Regional Context:
     - GEOG 550 Geography of the United States and Canada (3 units)
     - GEOG 552 Geography of California (3 units)
     - GEOG 575 Emerging China (3 units)
   - GEOG 646 The Geography of Marine Resources (4 units)
   - GEOG 647 Geography of Water Resources (4 units)
   - GEOG 648 Management of National Parks and Protected Areas (4 units)
   - GEOG 651 San Francisco Bay Area Environmental Issues (4 units)

   - Either Geographic Techniques – 601–639 numbered courses in Geography or Applied Geography – 640–668 numbered courses in Geography
Focus of Interest (12 units)
Units of upper division geography electives consisting of a minimum of three courses chosen on advisement. These courses will be organized around coherent themes such as those listed below. In addition, alternative concentrations tailored to individual student interest may be developed in consultation with the Geography undergraduate advisor. On advisement, appropriate upper division courses from other departments and programs may be included.

- Human Geography
- Environmental Studies
- Physical Environment
- Resource Management
- Techniques of Geographic Analysis
- Urban Environment, Transportation, and Land Use
- Focused individual interest pursued in consultation with the undergraduate advisor

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Foci of Interest
Focus on Human Geography
GEOG 422 Environmental Perception (3 units)
GEOG 423 Geographic Perspectives on Gender, Environment, and Development (3 units)
GEOG 425 Economic Geography (3 units)
GEOG 427 Agriculture and Food Supply (4 units)
GEOG 430 Transforming Food and Agriculture Systems: Local to Global (4 units)
GEOG 432 Urban Geography (4 units)
GEOG 434 Geographies of Health and Health Care (3 units)
GEOG 445 Geopolitics and Globalization (3 units)
GEOG 454 San Francisco on Foot (4 units)
GEOG 455 Geography of Ethnic Communities (3 units)
Select a 500 level course

Focus on Environmental Studies
Required
GEOG 600 Environmental Problems and Solutions (3 units)
Recommended
GEOG 316 Biogeography (4 units)
GEOG 317 Geography of Soils (4 units)
GEOG 422 Environmental Perception (3 units)
GEOG 427 Agriculture and Food Supply (4 units)
GEOG 642 Watershed Assessment and Restoration (4 units)
GEOG 644 Water Quality (3 units)
GEOG 646 The Geography of Marine Resources (4 units)
GEOG 647 Geography of Water Resources (4 units)
GEOG 651 San Francisco Bay Area Environmental Issues (4 units)
GEOG 652 Environmental Impact Analysis (4 units)
GEOG 657 Natural Resource Management: Biotic Resources (4 units)
GEOG 666 Geography of Garbage: Recycling and Waste Reduction (3 units)
GEOG 667 Environmental Justice: Race, Poverty, and the Environment (4 units)
GEOG 668 Politics, Law, and the Urban Environment (4 units)

Focus on the Physical Environment
Courses central to the specialization include:
GEOG 312 Geography of Landforms (4 units)
GEOG 313 Earth’s Climate System (4 units)
GEOG 314 Bioclimatology (4 units)
GEOG 316 Biogeography (4 units)
GEOG 317 Geography of Soils (4 units)
GEOG 342 Surface Water Hydrology (4 units)
Supporting courses include:
GEOG 602 Field Methods in Physical Geography (4 units)
GEOG 642 Watershed Assessment and Restoration (4 units)
GEOG 647 Geography of Water Resources (4 units)
GEOG 657 Natural Resource Management: Biotic Resources (4 units)

Focus on Techniques of Geographic Analysis
Data Acquisition in the field
GEOG 667 Field Methods in Human Geography (3 units)
Bachelor of Arts in Geography – GEOG Associate Degree for Transfer
Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Geography. Six units in the major (GEOG 101, GEOG 102) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Geographic Techniques</td>
<td>3</td>
</tr>
<tr>
<td>Major Distribution Requirement or Major Focus of Interest – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>GEOG 500GW</td>
<td>Physical and Human Dimensions of Climate Change - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Distribution Requirement or Major Focus of Interest – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Distribution Requirement or Major Focus of Interest – Take Three</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 690</td>
<td>Senior Seminar in Geography and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>Major Distribution Requirement or Major Focus of Interest</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units): Look for GEOG courses that also satisfy Major requirements.
- Students entering the major with the AA-T in Geography are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

**Geography Major: 30–33 Units**

GEOG 101- GEOG 102 met in transfer.
• Major Core (6–9 units): GEOG 205 (if not met in transfer), GEOG 500GW, and GEOG 690
• Distribution Requirement (12 upper division units): Choose one course from four different areas: Physical Environment (310–399 level); Human Geography (400 level); Human-Environment Interaction in a Regional Context; Geographic Techniques (601–639) OR Applied Geography (640–668).
• Focus of Interest (12 units): Choose upper division courses organized around a coherent theme in consultation with an advisor.

University Electives: Nine or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Bachelor of Science in Environmental Science

The Bachelor of Science in Environmental Science is designed for students intending to prepare for graduate school or direct entry into a career as an environmental scientist or environmental manager in industry or government. Entry to the major presupposes prior course work comprising the high school equivalents of two years of algebra, one year of plane geometry, one-half year of trigonometry, one year of biology, and one year of physics and/or chemistry.

The Environmental Science curriculum comprises a core providing a foundation of science and methods courses—introductory earth systems and environmental science, biology, chemistry, physics, and mathematics—as well as distributed electives in environmental science, environmental management, and analytical methods, and a capstone seminar. GEOG 205 provides introductory research design, statistical and geospatial methods. Geospatial methods are then further developed in GEOG 603, which is a prerequisite for all advanced GIS classes. The GWAR course (GEOG 500GW) focuses on the physical and human dimensions of climate change, providing a rich source of topics for composition at the upper division level.

Student progress toward the degree is aided in that some of these core classes also meet lower-division general education requirements. Students will complete their entire Area B, Scientific Inquiry and Quantitative Reasoning in GEOG 101 (Area B1 Physical Science), GEOG 160 (Area B2 Life Science), GEOG 160 lab (Area B3 Laboratory Science), and MATH 226 (Area B4 Quantitative Reasoning). They will also complete three units toward their Area D Social Sciences requirement in GEOG 102.

Electives are distributed into three areas:

1. Environmental Science, including investigations of the atmosphere, hydrosphere, lithosphere, pedosphere (soils), environmental chemistry, and the biosphere;
2. Environmental Management of managed lands and waters, natural resources, threatened species and livable environment; and
3. Analytical Methods, including geographic information science, statistical analysis, and field-based environmental analysis methods.

Through choices in each area, students can tailor their program in a variety of ways, to focus on water, soils and agriculture, biotic systems, restoration science, coastal systems, bioclimatology, pollution management, protected land management, water resources management, or others. The capstone course, GEOG 690, prepares students for careers and graduate study.

Students are advised that the CR grade is acceptable in any two courses to be counted for the major. No more than one course counted toward major requirements may be completed with a grade less than a C−.

Environmental Science (B.S.) – 68 units

Lower Division Requirements (27 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 180</td>
<td>Chemistry for the Energy and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>The Human Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 160</td>
<td>Introduction to Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Geographic Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Math 226  Calculus I  4
Select one of the following:  3
BIOL 150  The World of Plants
BIOL 170  Animal Diversity
BIOL 313  Principles of Ecology
Select one of the following:  4
PHYS 111 & PHYS 112  General Physics I and General Physics I Laboratory
PHYS 220 & PHYS 222  General Physics with Calculus I and General Physics with Calculus I Laboratory

Upper Division Requirements (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 500GW</td>
<td>Physical and Human Dimensions of Climate Change - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 603</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 690</td>
<td>Senior Seminar in Geography and Environmental Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Electives (32 units)

Distributed as 12 units of Environmental Science, 12 units of Environmental Management, and eight units of Analytical Methods:

Environmental Science Electives

Select 12 units of the following:  12
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 312</td>
<td>Geography of Landforms</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 313</td>
<td>Earth’s Climate System</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 314</td>
<td>Bioclimatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 316</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 317</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 342/442</td>
<td>Surface Water Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 644</td>
<td>Water Quality</td>
<td>3</td>
</tr>
</tbody>
</table>

Environmental Management Electives

Select 12 units of the following:  12
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 421</td>
<td>Future Environments</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 427</td>
<td>Agriculture and Food Supply</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/ERTH 642</td>
<td>Watershed Assessment and Restoration</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 646</td>
<td>The Geography of Marine Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 647</td>
<td>Geography of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 648</td>
<td>Management of National Parks and Protected Areas</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/USP 652</td>
<td>Environmental Impact Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/ENVS 657</td>
<td>Natural Resource Management: Biotic Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 666</td>
<td>Geography of Garbage: Recycling and Waste Reduction</td>
<td>3</td>
</tr>
</tbody>
</table>

Analytical Methods Electives

Select eight units of the following:  8
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 458</td>
<td>Biometry</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 602</td>
<td>Field Methods in Physical Geography</td>
<td>3</td>
</tr>
</tbody>
</table>
GEOG 610  Remote Sensing of the Environment I  
GEOG 611  Remote Sensing of the Environment II  
GEOG 620  Geographical Information Systems  
GEOG 621  Geographic Information Systems for Environmental Analysis  
GEOG 625  Programming for Geographic Information Science  
GEOG 629  Coastal and Marine Applications of GIS

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer:
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)
Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
**Bachelor of Science in Environmental Science Roadmap**

120 Total Units Required  
Minimum Number of Units in the Major: 68

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3) $^1$</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2) $^2$</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>The Human Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 160</td>
<td>Introduction to Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 150</td>
<td>The World of Plants</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 170</td>
<td>Animal Diversity</td>
<td></td>
</tr>
<tr>
<td>BIOL 313</td>
<td>Principles of Ecology</td>
<td></td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Geographic Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
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<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
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<tr>
<td>CHEM 180</td>
<td>Chemistry for the Energy and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111 &amp; PHYS 112</td>
<td>General Physics I or General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 220 and PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td>3</td>
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<tr>
<td>or SF State Studies or University Elective</td>
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<td></td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td>SF State Studies or University Elective</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>16</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<tr>
<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution</td>
<td>3</td>
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<tr>
<td>GEOG 5000GW</td>
<td>Physical and Human Dimensions of Climate Change - GWAR</td>
<td>3</td>
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<td>GE Area C: Arts (C1)</td>
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<td>SF State Studies or University Elective – Take Two</td>
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<td><strong>Units</strong></td>
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<td><strong>15</strong></td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>GEOG 421</td>
<td>Future Environments</td>
<td>3</td>
</tr>
<tr>
<td>Major Environmental Science Electives (12 Units Total) $^3$</td>
<td></td>
<td>3-4</td>
</tr>
</tbody>
</table>
Major Environmental Management Electives (12 Units Total) \(^4\) & 3-4 \\
Major Analytical Methods Electives (8 Units Total) \(^5\) & 3-4 \\

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td>15</td>
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**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>GEOG 603</td>
<td>Introduction to Geographic Information Systems</td>
</tr>
<tr>
<td>Major Environmental Science Electives (12 Units Total) (^3)</td>
<td>3-4</td>
</tr>
<tr>
<td>Major Environmental Management Electives (12 Units Total) (^4)</td>
<td>3-4</td>
</tr>
<tr>
<td>Major Analytical Methods Electives (8 Units Total) (^5)</td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<table>
<thead>
<tr>
<th>Units</th>
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<tr>
<td>15-18</td>
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**Eighth Semester**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>GEOG 690</td>
<td>Senior Seminar in Geography and Environmental Science</td>
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<tr>
<td>Major Environmental Science Electives (12 Units Total) – Take Two (^3)</td>
<td>6-7</td>
</tr>
<tr>
<td>Major Environmental Management Electives (12 Units Total) – Take Two (^4)</td>
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<table>
<thead>
<tr>
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<table>
<thead>
<tr>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-125</td>
</tr>
</tbody>
</table>

1. All LL&D and SF State Studies requirements (AERM, GP, ES, SJ) are met within the major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy GE Area A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Environmental Science Electives (12 units)**
   - CHEM 380 Chemistry Behind Environmental Pollution (3 units)
   - GEOG 312 Geography of Landforms (4 units)
   - GEOG 313 Earth’s Climate System (4 units)
   - GEOG 314 Bioclimatology (4 units)
   - GEOG 316 Biogeography (4 units)
   - GEOG 317 Geography of Soils (4 units)
   - GEOG 342/ERTH 442 Surface Water Hydrology (4 units)
   - GEOG 644 Water Quality (3 units)
4. **Environmental Management Electives (12 units)**
   - GEOG 421 Future Environments (3 units)
   - GEOG 427 Agriculture and Food Supply (4 units)
   - GEOG 642/ERTH 642 Watershed Assessment and Restoration (4 units)
   - GEOG 646 The Geography of Marine Resources (4 units)
   - GEOG 647 Geography of Water Resources (4 units)
   - GEOG 648 Management of National Parks and Protected Areas (4 units)
   - USP 652 Environmental Impact Analysis (4 units)
   - ENVS 657 Natural Resource Management: Biotic Resources (4 units)
   - GEOG 666 Geography of Garbage: Recycling and Waste Reduction (3 units)
5. **Analytical Methods Electives (12 units)**
   - BIOL 458 Biometry (4 units)
   - GEOG 602 Field Methods in Physical Geography (4 units)
   - GEOG 610 Remote Sensing of the Environment I (4 units)
   - GEOG 611 Remote Sensing of the Environment II (4 units)
   - GEOG 620 Geographical Information Systems (4 units)
   - GEOG 621 Geographic Information Systems for Environmental Analysis (4 units)
   - GEOG 625 Programming for Geographic Information Science (4 units)
   - GEOG 629 Coastal and Marine Applications of GIS (3 units)
Minor in Geography

Minor Advisor: Jennifer Blecha, Tendai Chitewere, XiaoHang Liu

The geography minor consists of a core curriculum of three lower division courses plus 12 units of upper division geography electives on advisement. These courses may be organized around coherent themes such as those described for the major. However, groupings of courses specifically appropriate to majors in other departments or programs such as Biology, Environmental Studies, International Relations, Earth & Climate Sciences, or Urban Studies and Planning are particularly recommended.

Students are advised the CR grade is acceptable in one course to be counted for the geography minor.

Geography Minor — 21 units

Core (9 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 101</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>The Human Environment</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 107</td>
<td>World Regions and Interrelations</td>
<td></td>
</tr>
<tr>
<td>GEOG 205</td>
<td>Geographic Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Courses (12 units) on advisement

Master of Arts in Geography

Graduate Advisors: Jason Henderson, Andrew Oliphant, Nancy Wilkinson

Admission to the Program

For admission to the graduate program, a student must meet the general University requirements as stated in the Bulletin. For unconditional admission to the M.A. program in geography, a student must have completed an undergraduate major in geography with a minimum GPA of 3.25 in the major. An applicant with a GPA of 3.25 or better in a major other than geography may qualify for admission as a conditionally classified graduate student. The conditional status is removed upon completion of core degree courses in physical and cultural geography, introductory statistics, introductory GIS, and an upper division geography course on advisement, with a grade of B or better in each course. Units earned for remedial or prerequisite course work are not applied toward the graduate degree.

In addition to the general application and grade transcripts that are sent to the graduate studies office, the department requires a detailed Statement of Purpose, GRE scores and two letters of recommendation. Check the department website for details on how to apply to the program; materials must be submitted in one packet. Personal interviews with the graduate advisors and appropriate department faculty are recommended.

Written English Proficiency Requirements

The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One

A score of 4.0 or better on the Analytical Writing portion of the GRE is taken as an indication of Level One writing proficiency. Any student whose GRE AW is 3.5 or lower is required to undertake remedial course work which does not appear on the Advancement to Candidacy (ATC).

Level Two

Satisfactory completion of GEOG 895 or GEOG 898.

Advancement to Candidacy

In addition to fulfilling all University requirements, students must complete the required curriculum outlined below. All graduate seminars and all courses used on the Advancement to Candidacy (ATC) with the exception of GEOG 895 and GEOG 898 must be taken on a letter grade basis and have earned a B- or better. Not more than three units of independent study (GEOG 899) and 1 unit of independent study (GEOG 699) may be included on the ATC. Internship (GEOG 688) units do not appear on the ATC. Each student must consult with the appropriate graduate advisor regularly and design an individual program leading towards the culminating experience requirement (thesis or research paper). For advancement to candidacy, the student must select a culminating experience committee comprised of two or three members, at least two of whom must be from the department, and present a research proposal to department faculty. Note that culminating experience committee members may have specific requirements for methodological background courses (e.g. the choice of GEOG 701, GEOG 702 or GEOG 705), so this should be considered when planning your course schedules.

Upper division courses offered by the department may be included with the approval of the graduate advisor. Depending upon a student’s background and/or objective, additional courses in geography or related fields may be required on advisement.

Geography (M.A.) — Minimum 30 Units

Program (12–13 Units)

Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 701</td>
<td>Field Methods in Human Geography</td>
</tr>
<tr>
<td>GEOG 702</td>
<td>Field Methods in Physical Geography</td>
</tr>
<tr>
<td>GEOG 705</td>
<td>Geographical Analysis</td>
</tr>
<tr>
<td>GEOG 801</td>
<td>Scope and Method in Geography</td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Seminar in Physical Geography</td>
</tr>
<tr>
<td>GEOG 820</td>
<td>Human and Social Geography</td>
</tr>
</tbody>
</table>

1 To be taken by the student during the first year after admission to classified graduate status.

Graduate Seminars in Geography (6–12 Units)

From the following:

(A seminar may be repeated for credit provided that it covers a different topic area and is offered by a different instructor)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 815</td>
<td>Seminar in GIScience</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 832</td>
<td>Seminar in Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 858</td>
<td>Seminar in Environmental and Land Use Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Courses in Geography or Related Fields (3–9 Units)

Graduate seminars and courses or upper division courses on advisement

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 895</td>
<td>Research Project (and Master’s Comprehensive Oral Examination)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 898</td>
<td>Master’s Thesis (and Oral Defense of Thesis)</td>
<td>3</td>
</tr>
</tbody>
</table>
Master's Oral Examination
A two-hour oral examination is required of all students. One hour is devoted to the research topic (GEOG 895) and a second hour focuses on a discussion of six foundation works in the discipline selected on individual advisement. The examination or either of its parts may be repeated only once. Students must have completed all course work prior to taking the oral examination which can be scheduled only during the fall and spring semesters. Examination guidelines are available from the graduate advisor.

Research Proposal
The department requires all M.A. students to present a proposal of their research for culminating experience to faculty and peers within a semester of filing the Proposal for Culminating Experience. The object is to provide students with useful feedback in the critical developmental stage of the research experience. Students present a twenty minute synopsis of their research ideas to faculty and fellow graduate students focusing particularly on linking the research to a broader theoretical framework and presenting a methodology design to achieve the specifically stated objectives. This is followed by ten minutes (maximum) for questions and comments. Proposal presentations are scheduled as needed.

Master of Arts in Geography: Concentration in Resource Management and Environmental Planning
Graduate Advisor: Nancy Wilkinson

Admission to the Program
For admission to the graduate program, a student must meet the general University requirements as stated in the Bulletin. For unconditional admission to the M.A. program in geography, a student must have completed an undergraduate major in geography with a minimum GPA of 3.25 in the major. An applicant with a GPA of 3.25 or better in a major other than geography may qualify for admission as a conditionally classified graduate student. The conditional status is removed upon completion of core degree courses in physical and cultural geography, introductory statistics, introductory GIS, and an upper division geography course on advisement, with a grade of B or better in each course. Units earned for remedial or prerequisite course work are not applied toward the graduate degree.

In addition to the general application and grade transcripts which are sent to the graduate admissions office, the department requires a detailed Statement of Purpose, GRE scores, and two letters of recommendation. Check the department website for details on how to apply to the department; materials must be submitted in one packet. Personal interviews with the graduate advisors, and appropriate department faculty are recommended.

Written English Proficiency Requirements
The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One
A score of 4.0 or better on the Analytical Writing portion of the GRE is taken as an indication of Level One writing proficiency. Any student whose GRE AW is 3.5 or lower is required to undertake remedial course work, which does not appear on the Advancement to Candidacy (ATC).

Level Two
Satisfactory completion of GEOG 895 or GEOG 898.

Advancement to Candidacy
In addition to fulfilling all University requirements, students must complete the required curriculum outlined below. All graduate seminars and all courses used on the Advancement to Candidacy (ATC) with the exception of GEOG 895 and GEOG 898 must be taken on a letter grade basis and have earned a B− or better. Not more than three units of Special Study (GEOG 899) and one unit of Special Study (GEOG 699) may be included on the ATC. Internship (GEOG 688) units do not appear on the ATC. Each student must consult with the appropriate graduate advisor regularly and design an individual program leading towards the culminating experience requirement (thesis or research paper).

For advancement to candidacy, the student must select a culminating experience committee comprised of two or three members, at least two of whom must be from the department, and present a research proposal to the department faculty. Note that culminating experience committee members may have specific requirements for methodological background courses (e.g., the choice of GEOG 701, GEOG 702 or GEOG 705) so this should be considered when planning your course schedules.

Upper division courses offered by the department may be included with the approval of the graduate advisor. Depending upon a student's background and/or objective, additional courses in geography or related fields may be required on advisement.

Geography (M.A.): Concentration in Resource Management and Environmental Planning — Minimum 30 units

Program (15–16 units)
Select one of the following: 3–4
GEOG 705 Geographical Analysis
GEOG 701 Field Methods in Human Geography
GEOG 702 Field Methods in Physical Geography
GEOG 751 Environmental Management 3
GEOG 801 Scope and Method in Geography 1 3
GEOG 810 Seminar in Physical Geography 3
GEOG 820 Human and Social Geography 3

1 To be taken by the student during the first year after admission to classified graduate status.

Additional Graduate Courses (3–7 units)
Select 3–7 units on advisement from the following:
BUS 857 Business Management, Ecology, and Environmental Leadership 3
GEOG 815 Seminar in GIScience 3
GEOG 858 Seminar in Environmental and Land Use Planning 3
GEOG 896 Directed Reading in Geography 3
IR/GEOG 735 Seminar in Global Environmental Policy 3
Additional Graduate Seminars or Upper Division Courses (4–9 units)

selected from the following, on advisement, with a minimum of one course from each category below.

**Category I: Resource Management and Environmental Planning**
- ECON 550 Environmental Economics 3
- GEOG 422 Environmental Perception 3
- GEOG 427 Agriculture and Food Supply 4
- GEOG 430 Transforming Food and Agriculture Systems: Local to Global 4
- GEOG 644 Water Quality 3
- GEOG 646 The Geography of Marine Resources 4
- GEOG 647 Geography of Water Resources 4
- GEOG/USP 652 Environmental Impact Analysis 4
- GEOG/USP 658 Land-Use Planning 4

**Category II: Techniques**
- GEOG 702 Field Methods in Physical Geography (if not chosen above) 4
- GEOG 610 Remote Sensing of the Environment I 4
- GEOG 711 Remote Sensing of the Environment II 4
- GEOG 720 Geographical Information Systems 4
- GEOG 721 Geographic Information Systems for Environmental Analysis 4
- GEOG/ERTH 642 Watershed Assessment and Restoration 4
- GEOG 644 Water Quality 3
- GEOG/ENVS 657 Natural Resource Management: Biotic Resources 4
- GEOG 705 Geographical Analysis (if not chosen above) 3

**Culminating Experience (3 units)**

Select one of the following:
- GEOG 895 Research Project (and Master’s Comprehensive Oral Examination) 3
- GEOG 898 Master’s Thesis (and Oral Defense of Thesis) 3

**Master’s Oral Examination**

A two-hour oral examination is required of all students. One hour is devoted to the research topic (GEOG 895) and a second hour focuses on a discussion of six foundation works in the discipline selected on individual advisement. The examination or either of its parts may be repeated only once. Students must have completed all course work prior to taking the oral examination, which can be scheduled only during the fall and spring semesters. Examination guidelines are available from the graduate advisor.

**Research Proposal**

The department requires all M.A. students to present a proposal of their research for culminating experience to faculty and peers within a semester of filing the Proposal for Culminating Experience. The object is to provide students with useful feedback in the critical developmental stage of the research experience. Students present a twenty minute synopsis of their research ideas to faculty and fellow graduate students focusing particularly on linking the research to a broader theoretical framework and presenting a methodology design to achieve the specifically stated objectives. This is followed by ten minutes (maximum) for questions and comments. Proposal presentations are scheduled as needed.

---

**Master of Science in Geographic Information Science**

Graduate Advisors: Leonhard Blesius, Jerry Davis, Ellen Hines, XiaoHang Liu

**Admission to the Program**

For admission to the graduate program, a student must meet the general University requirements as stated in the Bulletin. An applicant must have a baccalaureate degree from an accredited institution with a GPA of 3.25 or better in geography or a related discipline, with emphasis or experience in spatial data analysis, and have earned a grade of B or better in GEOG 603, or equivalent.

In addition to the general application and grade transcripts which are sent to the Graduate Studies Office, the department requires applicants to submit a detailed Statement of Purpose, GRE scores and two letters of recommendation. Check the department website for details on how to apply to the department; materials must be submitted in one packet. Personal interviews with the graduate advisors and appropriate department faculty are recommended.

**Written English Proficiency Requirements**

The University has a requirement for written English proficiency that is to be assessed at two different levels.

**Level One**

A score of 4.0 or better on the Analytical Writing portion of the GRE is taken as an indication of Level One writing proficiency. Any student whose GRE AW is 3.5 or lower is required to undertake remedial course work, which does not appear on the Advancement to Candidacy (ATC).

**Level Two**

Satisfactory completion of GEOG 895 or GEOG 898.

**Advancement to Candidacy**

In addition to fulfilling all University requirements, students must complete the required curriculum outlined below. All graduate seminars and all courses used on the Advancement to Candidacy (ATC) with the exception of Geography 895 and 898 must be taken on a letter grade basis and have earned a B- or better. Not more than three units of Special Study (GEOG 699) and 1 unit of Special Study (GEOG 699) may be included on the ATC. Each student must consult with their graduate advisor regularly and design an individual program leading towards the culminating experience requirement (thesis or research paper).

For advancement to candidacy, the student must select a culminating experience committee comprised of two or three members, at least two of whom must be full-time faculty in geography at SF State, and must present a research proposal to the department.

Upper division courses offered by the department may be included with the approval of the graduate advisor. Depending upon a student’s background and/or objective, additional courses in geography or a related field may be required on advisement. Note: A maximum of 30% undergraduate-only courses may be used in a graduate program.
Geographic Information Science (M.S.) – Minimum 30 units

Prerequisites as Needed (3 units)

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tr>
<td>GEOG 603</td>
<td>Introduction to Geographic Information Systems</td>
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<tr>
<td></td>
<td>(or equivalent)</td>
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</table>

Program (24 units)

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<th>Course Title</th>
<th>Units</th>
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<tr>
<td>GEOG 705</td>
<td>Geographical Analysis</td>
<td>3</td>
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<tr>
<td>GEOG 801</td>
<td>Scope and Method in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 815</td>
<td>Seminar in GIScience</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 896</td>
<td>Directed Reading in Geography</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 789</td>
<td>GIScience Internship</td>
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<tr>
<td>Select one of the following on advisement:</td>
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</tr>
<tr>
<td>GEOG 751</td>
<td>Environmental Management</td>
<td></td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Seminar in Physical Geography (any variant: Biogeography, Climatology, or Geomorphology)</td>
<td></td>
</tr>
<tr>
<td>GEOG 820</td>
<td>Human and Social Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 832</td>
<td>Seminar in Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 858</td>
<td>Seminar in Environmental and Land Use Planning</td>
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<tr>
<td>Select 12–16 units on advisement from the following:</td>
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</tr>
<tr>
<td>GEOG 610</td>
<td>Remote Sensing of the Environment I</td>
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<tr>
<td>GEOG 711</td>
<td>Remote Sensing of the Environment II</td>
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</tr>
<tr>
<td>GEOG 720</td>
<td>Geographical Information Systems</td>
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<tr>
<td>GEOG 721</td>
<td>Geographic Information Systems for Environmental Analysis</td>
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<tr>
<td>Approved courses from among the following on advisement:</td>
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<tr>
<td>CSC 667</td>
<td>Internet Application Design and Development</td>
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<tr>
<td>CSC 675</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 606</td>
<td>Cartography</td>
<td></td>
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<tr>
<td>GEOG 625</td>
<td>Programming for Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 629</td>
<td>Coastal and Marine Applications of GIS</td>
<td></td>
</tr>
<tr>
<td>GEOG 642</td>
<td>Watershed Assessment and Restoration</td>
<td></td>
</tr>
<tr>
<td>GEOG 657</td>
<td>Natural Resource Management: Biotic Resources</td>
<td></td>
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<tr>
<td>GEOG 702</td>
<td>Field Methods in Physical Geography</td>
<td></td>
</tr>
<tr>
<td>ERTH 702</td>
<td>Quantitative Methods in Geosciences</td>
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</tbody>
</table>

Culminating Experience (3 units)

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 895</td>
<td>Research Project (and Master’s Comprehensive Oral Examination)</td>
<td></td>
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<td>GEOG 898</td>
<td>Master’s Thesis (and Oral Defense of Thesis)</td>
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</tbody>
</table>

Comprehensive Oral Examination (GEOG 895)

A two-hour oral examination is required of all students using this option. One hour is devoted to the research topic (GEOG 895) and a second hour of comprehensive oral examination on the theory and applications of GIScience. The examination or either of its parts may be repeated only once. Students must have completed all course work prior to taking the oral examination, which can be scheduled only during the fall and spring semesters. Examination guidelines are available from the graduate advisor.

Research Proposal

The department requires all graduate students to present a proposal of their research for culminating experience to faculty and peers within a
MARINE SCIENCE

College of Science and Engineering

Dean: Keith Bowman

Based at the Romberg Tiburon Center

As of Fall 2017, this Program is temporarily not accepting students.

For students interested in Marine and Estuarine Science at the Romberg Tiburon Center, please visit: http://rtc.sfsu.edu/riptides/index.htm

Administered by the Department of Biology

Website: http://biology.sfsu.edu/graduate/marine_sciencesRTC

Graduate Coordinator: Ellen M. Hines ehines@sfsu.edu

The M.S. in Marine Science program is an interdisciplinary program offered at San Francisco State University (SF State) by the College of Science and Engineering, based at the Romberg Tiburon Center (RTC; http://rtc.sfsu.edu), and administered by the Department of Biology. Faculty mentors in the program are from the Departments of Biology, Chemistry and Biochemistry, Physics, Geography & Environment, and Earth & Climate Sciences.

Program Scope

The interdisciplinary MS in Marine Science program includes faculty from a broad spectrum of marine, coastal and estuarine researchers from across SF State departments. The program provides the opportunity for students to acquire a practical and theoretical education in the marine sciences to prepare them for careers as research scientists, teachers, and marine technicians. Through RTC the program provides extensive field and laboratory work for advanced study in the marine sciences.

Master of Science in Marine Science

Admission to the Program

Prospective students from a variety of undergraduate backgrounds are encouraged to apply. Applications are administered by the Biology Department and must comply with the application procedures and deadlines of the Biology Department (http://biology.sfsu.edu/content/applying-sfsu-biology-graduate-programs). Note, the M.S. in Marine Science is distinct from the M.S. in Biology with a concentration in marine biology.

Marine Science (M.S.) – 30 units

Coursework Requirements

Students are required to complete a total of 30 units*, structured as follows:

- 9–10 units of research credits, comprised of:
  - Research
    - BIOL/CH5M/ERTH 897
    - GEQG 896
  - Thesis
    - BIOL/CH5M/ERTH/GEOQ 896

- 20 units of coursework that must include:
  - 6–8 units of graduate seminar courses

- 12–15 units of remaining coursework, as described below.

The 20 units of coursework are broken down below in the following categories I-V:

1. Scientific Methods for Professional Aquatic Scientists BIOL 708, 3 units:
   Required in the first semester of graduate school.

2. Students pick at least three of the following core seminars*:
   - BIOL 862 Advances in Ecology and Systematic Biology 2
   - BIOL 863 Advances in Marine Biology 2
   - BIOL 864 Advances in Microbiology 2
   - BIOL 865 Advances in Physiology and Behavioral Biology 2
   - GEOG 857 Issues in Marine and Estuarine Conservation 3

   - Students who have completed these courses under their undergraduate courses can take other courses after advisor’s approval.

3. Students can choose from a wide range of electives in consultation with their advisor.
   - Electives taught at RTC include:
     - BIOL 582 Biological Oceanography 4
     - CHEM 680 Chemical Oceanography 3
     - ERTH 870 Physical Oceanography 4
     - BIOL 534 Wetland Ecology 3
     - BIOL 585 Marine Ecology 3
     - ERTH 834 Coastal Processes 3
     - BIOL 731 Animal Physiology Laboratory - GWAR 4
     - BIOL 702 Biology of the Algae 3
     - GEOG 629 Coastal and Marine Applications of GIS 3
   
   - Electives taught at SF State, MLML, or elsewhere (e.g. UC Berkeley):
     - For example, Biometry, Environmental GIS, Conservation Biology, etc...

4. Current RTC Research, BIOL 883, 2-4 units. MS in MS students are expected to participate each semester in this formal course for the Wednesday RTC lecture series. Students are expected to enroll in BIOL 883 each semester, though the course can only count twice (4 units total) towards the degree. This course does not fulfill the graduate seminar requirement.

Moss Landing Marine Laboratories Courses

Most courses for the MS in Marine Science are offered at SF State’s Romberg Tiburon Center and on the main campus. Students may also take equivalent core courses or any elective courses at the Moss Landing Marine Laboratories on advisement. Consult the current Moss Landing Marine Laboratories course schedule, https://gradprog.mlml.calstate.edu/class-schedule.
MATHEMATICS

College of Science and Engineering
Dean: Keith Bowman

Department of Mathematics
TH 937
Phone: (415) 338–2251
Email: statmath@sfsu.edu
Website: math.sfsu.edu (http://math.sfsu.edu)

Chair: David Bao
Mathematics Undergraduate Advisors: D. Ellis, E. Hsu, S. Li
Mathematics Graduate Coordinators: Y. Cheung, J. Gubeladze
Statistics Undergraduate Advisor: M. Kafai

Program Scope
The Bachelor of Arts is offered for students with a general interest in mathematics; Bachelor of Science programs in applied mathematics and statistics are also offered. Courses are offered in mathematics education for prospective elementary and secondary teachers. Copies of program requirements are available in the mathematics department office.

The Bachelor of Arts in Mathematics has three concentrations:

- Liberal Arts
- Teaching
- Advanced Study

The Liberal Arts concentration is for students who desire a broad liberal arts education with an emphasis in mathematics.

The Teaching concentration is for students whose goal is to teach mathematics in middle school or high school. These students will obtain a solid understanding of the mathematics needed for teaching and classroom experience as volunteers in local public schools. They will also have the opportunity to develop the mathematical skills, flexibility, and perceptiveness to help future students cultivate fruitful wonderful ideas, and to help students connect their thinking to formal mathematical structures. Students who complete this concentration will have satisfied the early field experience requirement and the subject matter competency requirement for a single subject credential in mathematics.

The Advanced Study concentration is for students who plan to pursue a masters or doctoral degree in mathematics. Students who choose this concentration will obtain a solid foundation in the cornerstones of advanced mathematics: linear algebra, abstract algebra, vector analysis, real analysis and complex analysis.

The Bachelor of Science in Applied Mathematics responds to the needs of business and industry for applied mathematical scientists. The program also responds to the needs of those students who enjoy mathematics for its own sake but who also have interests in other fields to which mathematics is applied. Applied mathematicians and statisticians are employed in such areas as operations research, systems analysis, computing, data analysis, biological sciences (for example, doing research on DNA topology, mathematical cancer biology, or meeting the special needs of biostatistics), communications research, and in the management sciences.

The primary aim of applied mathematics is to elucidate scientific concepts and to describe and predict scientific phenomena through the use of mathematics. The applied mathematician is at once a mathematical specialist and a systems analyst, whose task it is to confront highly complex real-world situations with mathematical analysis. In industry, the applied mathematician has an opportunity to test both background and training in solving problems of a practical nature. It is necessary to have not only a grasp of the mathematical theories involved, but also an appreciation for the specific science or technology concerned. In this way, one can arrive at usable mathematical formulations of scientific and engineering problems.

The applied mathematics program prepares students in several areas. First, students acquire a broad knowledge of the techniques and methods of applied mathematics. These techniques include differential equations, optimization, statistics, numerical analysis, computer programming, and operations research. Second, students learn to model scientific phenomena and complex real-world systems, (Mathematical Modeling, Applied Mathematics Project) and to use these models to understand and predict the behavior of these systems. Finally, they learn how to communicate these results to other scientists and managerial decision makers.

The Minor in Mathematics is available for students desiring a program of study in mathematics that is coherent but not as extensive as the B.A. program. It could provide an excellent background for prospective secondary school teachers who want to be able to teach in mathematics as well as in their major area, or for students majoring in a science such as biology or economics who want to emphasize the quantitative aspects of their major.

The College of Business and the College of Science and Engineering offer the Bachelor of Science in Statistics for students who are planning careers as statisticians in a wide variety of industrial and business activities, and government services.

The Bachelor of Science in Statistics is for students who are planning careers as statisticians in industry, business, government, or biomedical research. Statistics is basic to quantitative research in the biological, physical, and social sciences. Because its methods are based on mathematics, it requires a firm understanding of mathematical methods as well as an appreciation of scientific method, computation, and practical problems. To give the student both breadth and depth and to introduce the student to a variety of fields where statistics may be applied, three emphases are offered: science, business, and economics.

The Master of Arts in Mathematics is offered with the purpose of extending students’ experience in mathematics. A student’s goal may be to prepare for a career in government, industry, or community college teaching, to enhance competency as an elementary or secondary school teacher, or to prepare for further graduate study.

The described degrees, when supplemented by the appropriate courses, can also prepare students for graduate study in other fields such as accounting, mathematical biology, computer science, economics, engineering, physics, and statistics.

Career Outlook
The degree programs in mathematics and statistics prepare students for additional graduate work; teaching careers; and work in business, industry, and government that apply mathematical and statistical concepts. In addition, specific careers in actuarial science, investment
firms, computer industry, biomedical research and the government sector (such as NASA and the NSA) are especially attractive.

Mathematics Faculty
Professors
Ardila, Axler, Bao, Beck, Cheung, Ellis, Goetz, Gubeladze, Hosten, Hsu, Kafai, Kys, Langlois, Li, Robbins, Schuster

Associate Professors
Krause, Piriyatinska

Assistant Professors
Clader, He, Lai, Ross, Seashore

Statistics Faculty
Professor
Kafai

Associate Professor
Piriyatinska

Assistant Professor
He

Majors
- Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study (p. 1220)
- Bachelor of Arts in Mathematics: Concentration in Liberal Arts (p. 1227)
- Bachelor of Arts in Mathematics: Concentration in Teaching (p. 1234)
- Bachelor of Science in Applied Mathematics (p. 1241)
- Bachelor of Science in Statistics (p. 1248)

Minor
- Minor in Mathematics (p. 1255)

Masters
- Master of Arts in Mathematics (p. 1255)

Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study

Undergraduate degree programs in mathematics presuppose a background equivalent to two years of high school algebra, one year of plane geometry, and at least one semester of trigonometry. Students in doubt as to their satisfaction of these prerequisites should consult the mathematics department. MATH 60, MATH 70, and MATH 199 may be used to remedy deficiencies. Because of the sequential nature of mathematics courses, all students must consult with a departmental advisor at regular intervals during their degree programs. MATH 500 through MATH 599 may not be counted as electives toward the mathematics major or minor. CR/NC grades are not acceptable in courses to be counted for a mathematics major or minor program.

The Bachelor of Arts in Mathematics can be earned by completing any one of three concentrations:

- Concentration in Mathematics for Advanced Study (48 units): this concentration prepares students for graduate study of mathematics.
- Concentration in Mathematics for Liberal Arts (42 units): this concentration is intended for students planning non-technical careers.
- Concentration in Mathematics for Teaching (45 units): this concentration matches the state-approved subject matter program for the single-subject credential in mathematics.

Mathematics majors who successfully complete MATH 300GW spring 2010 or thereafter or MATH 301GW in spring 2009 or thereafter will have satisfied the University's Graduation Writing Assessment Requirement (GWAR).

Mathematics (B.A.): Concentration in Mathematics for Advanced Study — 48 units

Core Courses (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Courses (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>MATH 310</td>
<td>Elementary Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>MATH 380</td>
<td>Introduction to Functions of a Complex Variable</td>
<td>3</td>
</tr>
<tr>
<td>MATH 435</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 770</td>
<td>Real Analysis II - Several Variables</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 471</td>
<td>Introduction to Fourier and Wavelet Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Two elective courses numbered 400 or above except MATH 475, 565, 575, 576, 577, and 578

Complementary Studies

Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the Mathematics major may come from:

1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
2. Any of the following courses outside of CoSE:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 312</td>
<td>Data Analysis with Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

- American Ethnic and Racial Minorities (AERM) | LD or UD | 3
- Environmental Sustainability (ES) | LD or UD | 3
- Global Perspectives (GP) | LD or UD | 3
- Social Justice (SJ) | LD or UD | 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)

This roadmap opens in a new tab. (p. 1223)

Transfer Student Roadmap (2 Year)

For students with an AA-T in Mathematics. This roadmap opens in a new tab. (p. 1225)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Mathematics

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
• How to complete the remaining 60 units for the degree in four
semesters.

Students who have earned an ADT should seek advising in the major
department during the first semester of attendance.

General Advising Information for Transfer
Students

1. Before transfer, complete as many lower division requirements or
electives for this major as possible.
2. The following courses are not required for admission, but are required
for graduation. Students are strongly encouraged to complete these
units before transfer; doing so will provide more flexibility in course
selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and
(2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes
options include more than one college. Use ASSIST to determine:
   • Which courses at a CCC satisfy any lower division major requirements
     for this major, including 2nd-semester composition;
   • Which courses at a CCC satisfy CSU GE, US History, and US & CA
     Government.

Remedial courses are not transferable and do not apply to the minimum
60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the
minimum 60 units required for upper division transfer (for example, if
course was not passed on the first attempt, or was taken to earn a better
grade).

Before leaving the last California community college of attendance,
obtain a summary of completion of lower division General Education
units (IGETC or CSU GE Breadth). This is often referred to as a GE
certification worksheet. SF State does not require delivery of this
certification to Admissions, but students should retain this document for
verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or
College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP
examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and
mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to
students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs
or CSUs

Review SF State’s lower division General Education requirements.
Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State’s lower division GE pattern are
available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking
(GE A3) may not be widely offered outside the CCC and CSU systems.
Students should attempt to identify and take an appropriate course no
later than the term of application to the CSU. To review more information
about the A3 requirement, please visit http://bulletin.sfsu.edu/
undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition
course before transfer. This is usually the next course after the typical
“freshman comp” course, with a focus on writing, reading and critical
analytical skills for academic purposes, and developing skills in
composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets
both US and CA/local government requirements may be an appropriate
option, particularly if transferring from outside of California.

All students must meet the transfer eligibility
requirements outlined below for admission.
For more information, visit the Undergraduate
Admissions section.

• Complete 60 or more transferable semester units or 90 or more
  quarter units
• Earn a college grade point average of 2.00 or better in all transferable
  courses. Non-local area residents may be held to a higher GPA
  standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education,
  including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with
     intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable
  semester units (90 quarter units) must be completed by the spring
  semester prior to fall admission, or by the fall semester prior to spring
  admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 48

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210 or CSC 309</td>
<td>Introduction to Computer Programming or Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 380</td>
<td>Introduction to Functions of a Complex Variable</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective - Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
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</tr>
<tr>
<td>MATH 310 or MATH 376</td>
<td>Elementary Number Theory or Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (6 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
### Complementary Studies or SF State Studies or University Elective

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
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### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 435</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (6 Units Total) 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective 3</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
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</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 770 or MATH 471</td>
<td>Real Analysis II - Several Variables or Introduction to Fourier and Wavelet Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective - Take Three 3</td>
<td></td>
<td>9</td>
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</table>

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
</tr>
</tbody>
</table>

**Total Units**: 120-122

---

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies** requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the Mathematics major may come from:

   1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
   2. Any of the following courses outside of CoSE:
      - DS 312 Data Analysis with Computer Applications (3 units)
      - DS 408 Computer Simulation (3 units)
      - ECON 101 Introduction to Microeconomic Analysis (3 units)
      - ECON 301 Intermediate Microeconomic Theory (3 units)
      - ECON 302 Intermediate Macroeconomic Theory (3 units)
      - FIN 350 Business Finance (3 units)
      - ISYS 363 Information Systems for Management (3 units)
      - ISYS 463 Information Systems Analysis and Design (3 units)
      - ISYS 464 Managing Enterprise Data (3 units)
      - ISYS 650 Business Intelligence (3 units)
      - PHIL 205 Formal Logic I (3 units)
      - PHIL 350 Philosophy of Science (3 units)
      - PHIL 351 Philosophy of Risk (3 units)
      - PHIL 694 Philosophical Logic Workshop (3 units)
      - PHIL 695 Advanced Logic Workshop (3 units)

4. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

5. **Major Electives**

   Two elective courses numbered 400 or above except MATH 475, MATH 565, MATH 575, MATH 576, MATH 577, and MATH 578.
Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study – MATH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Mathematics. At least 12 units in the major (MATH 226, MATH 227, MATH 228) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>or Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>or University Elective if met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 was met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective Course numbered 400 or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 310</td>
<td>Elementary Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>or Ordinary Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 435</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 380</td>
<td>Introduction to Functions of a Complex Variable</td>
<td>3</td>
</tr>
<tr>
<td>MATH 470</td>
<td>Real Analysis II - Several Variables</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 471</td>
<td>or Introduction to Fourier and Wavelet Analysis</td>
<td></td>
</tr>
<tr>
<td>Major Concentration Elective Course numbered 400 or above</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. If ENG 214 or equivalent is not completed prior to transfer, MATH 301GW must be taken in a subsequent semester. Time for degree completion may be affected.
2. Major Concentration Elective Course numbered 400 or above (except MATH 475, MATH 565, MATH 576, MATH 577, MATH 578).
3. MATH 310, MATH 376, MATH 435 offered fall semesters only.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper Division GE, areas B, C and D (9 units)
- Students entering this major with the AS-T in Mathematics are not required to fulfill SF State Studies requirements.
- Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Mathematics for Advanced Study Major: 33–36 Units
MATH 226-MATH 227-MATH 228 met in transfer; CSC 210 may have been met in transfer.
- Core (12 units)
- Concentration (21–24 units)

University Electives: Six or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Bachelor of Arts in Mathematics:
Concentration in Mathematics for Liberal Arts

Website: math.sfsu.edu (http://math.sfsu.edu)

The Liberal Arts concentration is for students who desire a broad liberal arts education with an emphasis in mathematics.

Mathematics (B.A.): Concentration in Mathematics for Liberal Arts — 42 units

Core Courses (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td></td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Courses (18 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>MATH 300GW</td>
<td>History of Mathematics - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

Four elective courses numbered 300 or above except MATH 375, 475, 12565, 575, 576, 577, 578.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies

Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the Mathematics major may come from:

1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
2. Any of the following courses outside of CoSE:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DS 312</td>
<td>Data Analysis with Computer Applications</td>
<td>3</td>
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<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>FIN 360</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 463</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 650</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 351</td>
<td>Philosophy of Risk</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 694</td>
<td>Philosophical Logic Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 695</td>
<td>Advanced Logic Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Title</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>Communication I</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English</td>
<td>Written English</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication II</td>
<td>Critical Thinking</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Physical Science</td>
<td>Mathematics/Quantitative Reasoning</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Life Science</td>
<td>Arts</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Lab Science</td>
<td>Arts or Humanities</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>Social Sciences</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Social Sciences: US History</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>Lifelong Learning</td>
<td>3</td>
<td>E</td>
</tr>
<tr>
<td>and Self-Development (LLD)</td>
<td>Physical and/or Life Science</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>and Social Sciences</td>
<td>Arts and/or Humanities</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Social Sciences: US History</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
Students who have earned an ADT should seek advising in the major
department during the first semester of attendance.

General Advising Information for Transfer
Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and
(2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes
options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements
   for this major, including 2nd-semester composition;
• Which courses at a CCC satisfy CSU GE, US History, and US & CA
   Government.

Remedial courses are not transferable and do not apply to the minimum
60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the
minimum 60 units required for upper division transfer (for example, if
course was not passed on the first attempt, or was taken to earn a better
grade).

Before leaving the last California community college of attendance,

obtain a summary of completion of lower division General Education
units (IGETC or CSU GE Breadth). This is often referred to as a GE
certification worksheet. SF State does not require delivery of this
certification to Admissions, but students should retain this document for
verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or
College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP
examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and
mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to
students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs
or CSUs

Review SF State's lower division General Education requirements.
Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Mathematics: Concentration in Mathematics for Liberal Arts Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 42

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>CSC 210 or CSC 309</td>
<td>Introduction to Computer Programming or Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or Complimentary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
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<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>3-4</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complimentary Studies or SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>12-13</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 300GW</td>
<td>History of Mathematics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complimentary Studies or SF State Studies or University Elective - Take Two</td>
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<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (12 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complimentary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective (12 Units Total)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>GE Area UD:B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Elective (12 Units Total) – Take Two</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**
   Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the MATH major may come from:
   1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
   2. Any of the following courses outside of CoSE:

   - DS 312 Data Analysis with Computer Applications (3 units)
   - DS 408 Computer Simulation (3 units)
   - ECON 101 Introduction to Microeconomic Analysis (3 units)
   - ECON 301 Intermediate Microeconomic Theory (3 units)
   - ECON 302 Intermediate Macroeconomic Theory (3 units)
   - FIN 350 Business Finance (3 units)
   - ISYS 363 Information Systems for Management (3 units)
   - ISYS 463 Information Systems Analysis and Design (3 units)
   - ISYS 464 Managing Enterprise Data (3 units)
   - ISYS 650 Business Intelligence (3 units)
   - PHIL 205 Formal Logic I (3 units)
   - PHIL 350 Philosophy of Science (3 units)
   - PHIL 351 Philosophy of Risk (3 units)
   - PHIL 694 Philosophical Logic Workshop (3 units)
   - PHIL 695 Advanced Logic Workshop (3 units)

4. Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

5. **Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.**

### Major Elective

Any MATH course numbered 300 or above except MATH 375, MATH 475, MATH 565, MATH 575, MATH 576, MATH 577, MATH 578.
Bachelor of Arts in Mathematics: Concentration in Mathematics for Liberal Arts – MATH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Mathematics. At least 12 units in the major (MATH 226, MATH 227, MATH 228) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>or Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met in transfer</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301 GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective Course Numbered 300 or Above – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td>or University Elective if US History met in transfer</td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective Course Numbered 300 or Above</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 300 GW</td>
<td>History of Mathematics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Major Concentration Elective Course Numbered 300 or Above</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Units 60

1. Major Concentration Elective Course numbered 300 or above (except MATH 375, MATH 475, MATH 565, MATH 575, MATH 576, MATH 577, MATH 578)
2. MATH 300GW offered in spring semesters only

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
• American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
• Upper Division GE, areas B, C and D (9 units)
• Students entering this major with the AS-T in Mathematics are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Mathematics for Liberal Arts Major: 27–30 Units
MATH 226-MATH 227-MATH 228 met in transfer; CSC 210 may have been met in transfer.

• Core (12 units)
• Concentration (15–18 units)

University Electives: 12 or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Bachelor of Arts in Mathematics: Concentration in Teaching

Undergraduate degree programs in mathematics presuppose a background equivalent to two years of high school algebra, one year of plane geometry, and at least one semester of trigonometry. Students in doubt as to their satisfaction of these prerequisites should consult the mathematics department. MATH 60, MATH 70, and MATH 199 may be used to remedy deficiencies. Because of the sequential nature of mathematics courses, all students must consult with a departmental advisor at regular intervals during their degree programs. MATH 500 through MATH 599 may not be counted as electives toward the mathematics major or minor. CR/NC grades are not acceptable in courses to be counted for a mathematics major or minor program.

The Bachelor of Arts in Mathematics can be earned by completing any one of three concentrations:

• Concentration in Mathematics for Advanced Study (48 units): this concentration prepares students for graduate study in mathematics.
• Concentration in Mathematics for Liberal Arts (42 units): this concentration is intended for students planning non-technical careers.
• Concentration in Mathematics for Teaching (45 units): this concentration matches the state-approved subject matter program for the single-subject major in mathematics.

Mathematics majors who successfully complete MATH 300GW spring 2010 or thereafter or MATH 301GW in spring 2009 or thereafter will have satisfied the University’s Graduation Writing Assessment Requirement (GWAR).

Mathematics (B.A.): Concentration in Teaching — 45 Units

Core Courses (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Courses (21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>MATH 300GW</td>
<td>History of Mathematics - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 310</td>
<td>Elementary Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 350</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 375</td>
<td>Field Study for Secondary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 475</td>
<td>Capstone Course for Secondary Teachers of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Complementary Studies

Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the Mathematics major may come from:

1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
2. Any of the following courses outside of CoSE:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DS 312</td>
<td>Data Analysis with Computer Applications</td>
<td>3</td>
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<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
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</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>FIN 350</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 463</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 650</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Formal Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 350</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 351</td>
<td>Philosophy of Risk</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 694</td>
<td>Philosophical Logic Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 695</td>
<td>Advanced Logic Workshop</td>
<td>3</td>
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</table>

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
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<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
</tbody>
</table>
Social Sciences: US History
LD 3 D2

Social Sciences: US & CA Government
LD 3 D3

Lifelong Learning and Self-Development (LLD)
LD or UD 3 E

Physical and/or Life Science
UD 3 UD-B

Arts and/or Humanities
UD 3 UD-C

Social Sciences
UD 3 UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM)
LD or UD 3

Environmental Sustainability (ES)
LD or UD 3

Global Perspectives (GP)
LD or UD 3

Social Justice (SJ)
LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1237)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Mathematics. This roadmap opens in a new tab. (p. 885)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Mathematics
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.

   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.

For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Arts in Mathematics: Concentration in Teaching Roadmap

120 Total Units Required  
Minimum number of units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
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<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
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<td></td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<tr>
<td><strong>Total</strong></td>
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<td></td>
<td></td>
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<tr>
<td>CSC 210</td>
<td>or CSC 309 Introductions to Computer Programming or Computer Programming for Scientists and Engineers</td>
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</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
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<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<td></td>
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<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
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<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
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<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
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<td>GE Area C: Arts (C1)</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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<td>MATH 300GW</td>
<td>History of Mathematics - GWAR</td>
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<tr>
<td>MATH 310</td>
<td>Elementary Number Theory</td>
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<td>MATH 325</td>
<td>Linear Algebra</td>
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<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td>Complementary Studies or SF State Studies or University Elective</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 350</td>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective - Take Two</td>
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<tr>
<td><strong>Total</strong></td>
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### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
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<tr>
<td>MATH 475</td>
<td>Capstone Course for Secondary Teachers of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>12</strong></td>
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### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 375</td>
<td>Field Study for Secondary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective - Take Four</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>120-122</strong></td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementrary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the Mathematics major may come from:
   1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
   2. Any of the following courses outside of CoSE:
      a. DS 312 Data Analysis with Computer Applications (3 units)
      b. DS 408 Computer Simulation (3 units)
      c. ECON 101 Introduction to Microeconomic Analysis (3 units)
      d. ECON 301 Intermediate Microeconomic Theory (3 units)
      e. ECON 302 Intermediate Macroeconomic Theory (3 units)
      f. FIN 350 Business Finance (3 units)
      g. ISYS 363 Information Systems for Management (3 units)
      h. ISYS 463 Information Systems Analysis and Design (3 units)
      i. ISYS 464 Managing Enterprise Data (3 units)
      j. ISYS 650 Business Intelligence (3 units)
      k. PHIL 205 Formal Logic I (3 units)
      l. PHIL 350 Philosophy of Science (3 units)
      m. PHIL 351 Philosophy of Risk (3 units)
      n. PHIL 694 Philosophical Logic Workshop (3 units)
      o. PHIL 695 Advanced Logic Workshop (3 units)

4. Consider taking a class with a combined laboratory or a separate lab to fulfill B3 if not already satisfied.

5. MATH 475 serves as the capstone course for the major.
# Bachelor of Arts in Mathematics: Concentration in Teaching Roadmap

120 Total Units Required  
Minimum number of units in the Major: 45

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1)</td>
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<td>3</td>
</tr>
<tr>
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<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td>3</td>
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</tbody>
</table>

| **Second Semester**                 |                                                 |       |
| MATH 227                            | Calculus II                                     | 4     |
| GE Area A: Oral Communication (A1)  | or Critical Thinking (A3)                       | 3     |
| GE Area A: Written English Communication II (A4) |                                         | 3     |
| or Written English Communication (A2) Stretch II |                                         |       |
| GE Area D: Social Sciences (D1)      |                                                 | 3     |
| GE Area D: U.S. History (D2) or U.S. and California Government (D3) | | 3     |

| **Third Semester**                  |                                                 |       |
| CSC 210 or CSC 309                   | Introduction to Computer Programming or Computer Programming for Scientists and Engineers | 3     |
| MATH 228                            | Calculus III                                    | 4     |
| GE Area A: Written English Communication II (A4) if not already satisfied | | 3     |
| or SF State Studies or University Elective |                                         |       |
| GE Area B: Physical Science (B1) and Laboratory Science (B3) | | 3-4   |
| GE Area C: Humanities: Literature (C3) |                                         | 3     |

| **Fourth Semester**                 |                                                 |       |
| MATH 301GW                          | Exploration and Proof - GWAR                    | 3     |
| MATH 324                            | Probability and Statistics with Computing       | 3     |
| GE Area B: Life Science (B2) and Laboratory Science (B3) | | 3-4   |
| GE Area C: Arts (C1)                |                                                 | 3     |
| Complementary Studies or SF State Studies or University Elective | | 3     |

| **Fifth Semester**                  |                                                 |       |
| MATH 300GW                          | History of Mathematics - GWAR                   | 3     |
| MATH 310                            | Elementary Number Theory                        | 3     |
| MATH 325                            | Linear Algebra                                   | 3     |
| GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course) | | 3     |
| Complementary Studies or SF State Studies or University Elective | | 3     |

| **Sixth Semester**                  |                                                 |       |
| MATH 335                            | Modern Algebra                                   | 3     |
| MATH 350                            | Geometry                                         | 3     |
| GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | | 3     |
| Complementary Studies or SF State Studies or University Elective - Take Two | | 3     |
Seventh Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 475</td>
<td>Capstone Course for Secondary Teachers of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course) 3

Complementary Studies or SF State Studies or University Elective 3 3

<table>
<thead>
<tr>
<th>Units</th>
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Eighth Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 375</td>
<td>Field Study for Secondary Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

Complementary Studies or SF State Studies or University Elective - Take Four 3 12

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Total Units 120-122

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Complementary Studies

   Students who pursue a Bachelor of Arts in Mathematics with Concentrations in Liberal Arts, Teaching, or Advanced Studies must complete 12 complementary units, within a coherent group of courses with a prefix other than MATH, and not cross-listed with MATH. Complementary Studies units for the Mathematics major may come from:
   1. Any courses offered by other departments in the College of Science & Engineering (CoSE), or
   2. Any of the following courses outside of CoSE:
      a. DS 312 Data Analysis with Computer Applications (3 units)
      b. DS 408 Computer Simulation (3 units)
      c. ECON 101 Introduction to Microeconomic Analysis (3 units)
      d. ECON 301 Intermediate Microeconomic Theory (3 units)
      e. ECON 302 Intermediate Macroeconomic Theory (3 units)
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      h. ISYS 463 Information Systems Analysis and Design (3 units)
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      j. ISYS 650 Business Intelligence (3 units)
      k. PHIL 205 Formal Logic I (3 units)
      l. PHIL 350 Philosophy of Science (3 units)
      m. PHIL 351 Philosophy of Risk (3 units)
      n. PHIL 694 Philosophical Logic Workshop (3 units)
      o. PHIL 695 Advanced Logic Workshop (3 units)

4. Consider taking a class with a combined laboratory or a separate lab to fulfill B3 if not already satisfied.

5. MATH 475 serves as the capstone course for the major.
**Bachelor of Science in Applied Mathematics**

The primary aim of applied mathematics is to elucidate scientific concepts and to describe and predict phenomena through the use of mathematics. The applied mathematician is at once a mathematical specialist and a systems analyst whose task is to confront complex real-world problems with mathematical analysis. In business and industry, the applied mathematician has opportunities to utilize both background and training in solving problems of a practical nature. To do so, one must know the mathematical theories involved and have an appreciation for the specific science or technology that provides the source of the problem.

**Applied Mathematics (B.S.) – 54 units**

**Required Courses (39 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 370</td>
<td>Real Analysis I</td>
<td></td>
</tr>
<tr>
<td>or MATH 380</td>
<td>Introduction to Functions of a Complex Variable</td>
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<tr>
<td>MATH 376</td>
<td>Ordinary Differential Equations I</td>
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<td>MATH 400</td>
<td>Numerical Analysis</td>
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<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
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<tr>
<td>MATH 460</td>
<td>Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 696 &amp; MATH 697</td>
<td>Applied Mathematics Project I and Applied Mathematics Project II</td>
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**Electives (15 units)**

Select six units of the following:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>MATH 430</td>
<td>Mathematics of Optimization</td>
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<tr>
<td>MATH 442</td>
<td>Probability Models</td>
<td>3</td>
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<tr>
<td>MATH 447</td>
<td>Design and Analysis of Experiments</td>
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<tr>
<td>MATH 448</td>
<td>Introduction to Statistical Learning and Data Mining</td>
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<td>MATH 449</td>
<td>Categorical Data Analysis</td>
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<tr>
<td>MATH 471</td>
<td>Introduction to Fourier and Wavelet Analysis</td>
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<tr>
<td>MATH 477</td>
<td>Partial Differential Equations</td>
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<tr>
<td>MATH 491</td>
<td>Game Theory</td>
<td>3</td>
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<tr>
<td>MATH 494</td>
<td>Non-Parametric Statistics</td>
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</tr>
<tr>
<td>MATH 495</td>
<td>Introduction to Wavelets and Frames with Applications</td>
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</tbody>
</table>

A coherent collection of three courses emphasizing applications of mathematics, chosen with the consent of the applied mathematics advisor.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
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<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
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<tr>
<td>Physical Science</td>
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<tr>
<td>Life Science</td>
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<td>B2</td>
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<td>Lab Science</td>
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<td>B4</td>
</tr>
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<td>Arts</td>
<td>LD</td>
<td>3</td>
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<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<td>Social Sciences: US History</td>
<td>LD</td>
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<td>D2</td>
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<td>Social Sciences: US &amp; CA Government</td>
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<td>D3</td>
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<td>Lifelong Learning and Self-Development (LLD)</td>
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<td>E</td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Global Perspectives (GP)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Social Justice (SJ)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: LD = Lower Division; UD = Upper Division.

**First-Time Student Roadmap (4 Year)**

This roadmap opens in a new tab. (p. 1244)
Transfer Student Roadmap (2 Year)

For students with an AA-T in Mathematics. This roadmap opens in a new tab. (p. 1246)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Applied Mathematics

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#A3EL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.
All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units

• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.

• Be in good standing at the last college or university attended

• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)

• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
# Bachelor of Science in Applied Mathematics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 54

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210 or CSC 309</td>
<td>Introduction to Computer Programming or Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>Major Application Elective (9 Units Total)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD~B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td></td>
</tr>
<tr>
<td>MATH 380</td>
<td>Introduction to Functions of a Complex Variable</td>
<td></td>
</tr>
<tr>
<td>MATH 460</td>
<td>Mathematical Modeling</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Applied Mathematics Roadmap

| Major Elective (6 Units Total) – Take One | 5 | 3 |
| GE Area UD–D: Upper Division Social Sciences (Consider SF State Studies Course) | 3 |
| SF State Studies or University Elective | 3 |
| **Units** | 15 |

**Seventh Semester**

| MATH 696 | Applied Mathematics Project I | 1 |
| MATH 400 | Numerical Analysis | 3 |
| Major Elective (6 Units Total) – Take One | 5 | 3 |
| Major Application Elective (9 Units Total) | 4 |
| GE Area UD–C: Upper Division Arts and/or Humanities (Consider SF State Studies Course) | 3 |
| **Units** | 13 |

**Eighth Semester**

| MATH 697 | Applied Mathematics Project II | 6 | 2 |
| Major Application Elective (9 Units Total) | 4 | 3 |
| SF State Studies or University Elective | 9 |
| **Units** | 14 |
| **Total Units** | 120-121 |

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114 if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.

4. A coherent collection of three courses emphasizing applications of mathematics, chosen with the consent of the applied mathematics advisor.

5. **Major Electives**
   - MATH 430 Mathematics of Optimization (3 units)
   - MATH 442 Probability Models (3 units)
   - MATH 447 Design and Analysis of Experiments (3 units)
   - MATH 448 Introduction to Statistical Learning and Data Mining (3 units)
   - MATH 449 Categorical Data Analysis (3 units)
   - MATH 471 Introduction to Fourier and Wavelet Analysis (3 units)
   - MATH 477 Partial Differential Equations (3 units)
   - MATH 491 Game Theory (3 units)
   - MATH 494 Non-Parametric Statistics (3 units)
   - MATH 495 Introduction to Wavelets and Frames with Applications (3 units)

6. MATH 696/MATH 697 serve as the capstone experience for the major.
# Bachelor of Science in Applied Mathematics – MATH Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Mathematics. At least 12 units in the major (MATH 226, MATH 227, MATH 228) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or CSC 309</td>
<td>or Computer Programming for Scientists and Engineers</td>
<td></td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met in transfer</td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Probability and Statistics with Computing</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 441</td>
<td>or Probability and Statistics II</td>
<td></td>
</tr>
<tr>
<td>MATH 400</td>
<td>Numerical Analysis ¹</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis – On Advisement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 370</td>
<td>or Real Analysis I</td>
<td></td>
</tr>
<tr>
<td>MATH 376</td>
<td>Ordinary Differential Equations I ²</td>
<td>3</td>
</tr>
<tr>
<td>MATH 460</td>
<td>Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 696</td>
<td>Applied Mathematics Project I</td>
<td>1</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 697</td>
<td>Applied Mathematics Project II</td>
<td>2</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis on advisement – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

¹ MATH 400 and MATH 441 offered spring semesters only.
² MATH 376 offered fall semesters only.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:
University-Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
- Students entering the major with the AS-T in Mathematics are not required to fulfill SF State Studies or Complementary Studies requirements.

Applied Mathematics Major: 39–42 Units
MATH 226-MATH 227-MATH 228 met in transfer; CSC 210 may have been met in transfer.
- Required Courses (24–27 units)
- Major Electives (15 units), including three courses emphasizing applications of mathematics, chosen on advisement

University Electives: Zero or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. UD GE and the major.
Bachelor of Science in Statistics

The Bachelor of Science in Statistics is an interdisciplinary program offered for students who intend to pursue an advanced degree, or who are planning careers as statisticians in industry, business, government, or scientific research.

To give the students both breadth and depth and to introduce them to a variety of fields where statistics may be applied, we offer three emphases for the degree: science, business, and economics.

**Statistics (B.S.) – 54 units**

**Core Requirements (45 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 338</td>
<td>Introduction to SAS</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 442</td>
<td>Probability and Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 447</td>
<td>Design and Analysis of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>MATH 448</td>
<td>Introduction to Statistical Learning and Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>MATH 449</td>
<td>Categorical Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Business Emphasis (9 units)**

Select four courses in consultation with the statistics advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 408</td>
<td>Computer Simulation</td>
<td>3</td>
</tr>
<tr>
<td>DS 604</td>
<td>Applied Business Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>DS 624</td>
<td>Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 363</td>
<td>Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 463</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 464</td>
<td>Managing Enterprise Data</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 569</td>
<td>Information Systems for Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>ISYS 650</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
</tbody>
</table>

**Economics Emphasis (9 units)**

Select four courses in consultation with the statistics advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 312</td>
<td>Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 715</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 731</td>
<td>Econometric Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 825</td>
<td>Applied Time Series Econometrics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Science Emphasis (9 units)**

Select four courses in consultation with the statistics advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 400</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 430</td>
<td>Mathematics of Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 460</td>
<td>Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 491</td>
<td>Game Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 493</td>
<td>Introduction to Actuarial Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 494</td>
<td>Non-Parametric Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td></td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td></td>
<td></td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td></td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td></td>
<td></td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td></td>
<td></td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td></td>
<td></td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US and CA Government</td>
<td></td>
<td></td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
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<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>LD or UD</td>
<td>3</td>
</tr>
</tbody>
</table>
Global Perspectives
LD or UD 3
Social Justice
LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1251)

Transfer Student Roadmap (2 Year)
For students with an AS-T in Mathematics. This roadmap opens in a new tab. (p. 1253)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Mathematics

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Statistics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 54

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210 or CSC 309</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or Computer Programming for Scientists and Engineers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16-17</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td>3</td>
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<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>MATH 338</td>
<td>Introduction to SAS</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
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</tr>
<tr>
<td>SF State Studies or University Elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>12</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<td></td>
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<tr>
<td>MATH 441</td>
<td>Probability and Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 448</td>
<td>Introduction to Statistical Learning and Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (12 Units Total)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
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</table>
### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 424</td>
<td>Introduction to Linear Models</td>
<td>3</td>
</tr>
<tr>
<td>MATH 442</td>
<td>Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MATH 447</td>
<td>Design and Analysis of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (12 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD~D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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</tbody>
</table>

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 449</td>
<td>Categorical Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Major Emphasis (12 Units Total)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective – Take Three</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Units:** 120-122

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Major Emphasis (12 units)**
   - Select four courses from one emphasis in consultation with the statistics advisor.
   - **Business Emphasis**
     - DS 408 Computer Simulation (3 units)
     - DS 412 Operations Management (3 units)
     - DS 604 Applied Business Forecasting (3 units)
     - DS 624 Quality Management (3 units)
     - ISYS 363 Information Systems for Management (3 units)
     - ISYS 463 Information Systems Analysis and Design (3 units)
     - ISYS 464 Managing Enterprise Data (3 units)
     - ISYS 569 Information Systems for Business Process Management (3 units)
     - ISYS 650 Business Intelligence (3 units)
   - **Economics Emphasis**
     - ECON 301 Intermediate Microeconomic Theory (3 units)
     - ECON 302 Intermediate Macroeconomic Theory (3 units)
     - ECON 312 Introduction to Econometrics (3 units)
     - ECON 715 Mathematical Economics (3 units)
     - ECON 731 Econometric Theory (3 units)
     - ECON 825 Applied Time Series Econometrics (3 units)
   - **Science Emphasis**
     - MATH 370 Real Analysis I (3 units)
     - MATH 376 Ordinary Differential Equations I (3 units)
     - MATH 400 Numerical Analysis (3 units)
     - MATH 430 Mathematics of Optimization (3 units)
     - MATH 460 Mathematical Modeling (3 units)
     - MATH 491 Game Theory (3 units)
     - MATH 493 Introduction to Actuarial Mathematics (3 units)
     - MATH 494 Non-Parametric Statistics (3 units)
Bachelor of Science in Statistics – MATH Associate Degree for Transfer (ADT) Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Mathematics. At least 12 units in the major (MATH 226, MATH 227 and MATH 228) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 210 or CSC 309</td>
<td>Introduction to Computer Programming or Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if CSC 210 met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 440</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or University Elective if A4 was met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 301GW</td>
<td>Exploration and Proof - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 441</td>
<td>Probability and Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 448</td>
<td>Introduction to Statistical Learning and Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>MATH 449</td>
<td>Categorical Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 338</td>
<td>Introduction to SAS</td>
<td>3</td>
</tr>
<tr>
<td>MATH 424</td>
<td>Introduction to Linear Models</td>
<td>3</td>
</tr>
<tr>
<td>MATH 442</td>
<td>Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Emphasis – Take Four</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University–Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
- Students entering the major with the AS-T in Mathematics are not required to fulfill SF State Studies or Complementary Studies requirements.
Statistics Major: 39–42 units
MATH 226, MATH 227 and MATH 228 met in transfer; CSC 210 may have been met in transfer.

- Core (27–30 units)
- Emphasis (12 units) in one of the following areas of emphasis: Business, Economics, or Science. Consult with a department advisor.

University Electives: Zero or More Units
Depends on the number of units transferred, course choices made at the community college, and how transferred units are applied to the requirements above.
Minor in Mathematics

At least 12 units of courses counted toward the minor, including at least 6 upper division units, must be completed at SF State.

Mathematics Minor — 24 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (12 units)

Upper division electives on advisement.

Master of Arts in Mathematics

Admission to Program

In addition to the general requirements for admission, applicants to the master’s program must have a 3.0 grade point average in the following three courses, or their equivalent:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 370</td>
<td>Real Analysis I</td>
<td>3</td>
</tr>
</tbody>
</table>

Applicants who fail to satisfy this requirement but who are qualified in all other respects may be admitted on the condition that they bring their grades in these courses up to the 3.0 average during their first two semesters of graduate study (these three courses, however, may not be counted as electives toward the M.A. degree).

Written English Proficiency Requirement

All students in graduate programs at SF State must demonstrate Level One (entry) and Level Two (exit) writing proficiency in accordance with University, departmental and or programmatic guidelines.

Level One

- Prior to admission: Minimum score of 4.0 on the Analytical Writing Analysis (AWA) on the GRE test.
- Conditional Admission: Applicants who do not satisfy Level I prior to admission must pass SCI 614 or MATH 729 with a grade of B-minus or better not later than the second semester. (Students should note that SCI 614 can be taken only through the College of Extended Learning and may not count as units toward the degree. MATH 729 is only offered in spring semesters.)

Level Two

Satisfactory completion of the Master’s Thesis (MATH 898), or take two comprehensive examinations and write an expository paper.

Upper division courses acceptable on the Advancement to Candidacy form will be determined by the student with approval of the graduate coordinator.

Mathematics (M.A.) — Minimum 30 units

Program (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 710</td>
<td>Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 850</td>
<td>Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Select and additional 6 units from unpaired graduate courses other than MATH 898 or MATH 899

Upper Division/Graduate Mathematics or Related Courses (18 units)

Of the remaining 18 units at least 3 unpaired graduate units in mathematics must be included and at most 9 units may be selected from approved unpaired undergraduate upper division courses. MATH 730 must be included among these 18 units unless the student had earned a B or higher grade in an undergraduate complex analysis course. Student must complete either a thesis with oral defense or take the comprehensive examinations and write an expository paper. MATH 898 if chosen, will count 3 units toward the degree.

Culminating Experience

Candidates for the M.A. in Mathematics must complete a Culminating Experience. Two options are available.

Thesis Option

Students may choose to write a thesis and present an oral defense. Students considering the thesis option should contact the department chair or graduate advisor for further details. A master’s thesis should contain new theorems or algorithms, a novel application, or an original approach to an established result. The resulting manuscript must be prepared according to university guidelines following a style similar to that used by the Notices of the American Mathematical Society. Each MA thesis has a principal advisor and two additional readers. The expected time to completion for this paper is one academic year. Thesis guidelines are available from the mathematics graduate coordinators.

Comprehensive Examinations/Expository Paper Option

Students selecting this option take two written examinations and write an expository paper. Students must take two examinations selected from algebra, analysis, and statistics. Written examinations are administered during the last two weeks of each semester. Examinations last two and a half hours, and a student takes no more than one examination per day. Departmental syllabi for the examinations are available at least four months in advance of each administration. Each examination requires students to integrate material from several undergraduate and graduate courses, to demonstrate their ability to write short proofs in correct mathematical English, and to demonstrate the falsity of propositions by counter-examples. Students who fail an examination may repeat it at least once, with additional attempts requiring the written approval of the graduate coordinators.

The expository paper is completed in two stages. First, students must complete a departmental proposal form, including: the title and abstract of the proposed paper, the what-why-how aspects of the research in question, a brief preliminary bibliography, and the approval of the proposal by a committee consisting of a faculty advisor and one additional reader from the Mathematics faculty. Once students have an approved proposal, they may begin work on the project under the guidance of the faculty advisor. Completion of the paper is subject to signed approval by all members of the committee.

Further information about these options can be obtained from the department website: http://math.sfsu.edu.
PHYSICS AND ASTRONOMY

College of Science and Engineering
Dean: Keith Bowman

Department of Physics and Astronomy
TH 334
Phone: (415) 338–1659
Fax: (415) 338–2178
E-mail: physics@sfsu.edu

Chair: Maarten Golterman
Graduate Coordinator: Susan M. Lea

Program Scope
The Physics and Astronomy Department offers strong undergraduate and graduate programs in physics, astronomy, and astrophysics, which are designed to prepare students for a variety of careers in science, technology, and teaching, as well as for graduate study. The goal is to educate versatile physicists and astronomers who combine a solid knowledge of theory with real-world skills in problem-solving, data acquisition and analysis, and computer-based simulation and analysis. The department specializes in the "hands-on" approach so important in the 21st century. Students at all levels are encouraged to work on a research project under the direction of a faculty supervisor. The projects may involve experimental laboratory work, astronomical observations and data analysis, or theoretical modeling using analytical and computational approaches.

The Bachelor of Arts in Physics is suited for students whose career goals involve the combination of physics with other fields such as engineering, business, or humanities. This program also provides excellent preparation for technical writers, technical salespeople, and laboratory technicians and research assistants.

The Bachelor of Arts in Physics with a Concentration in Astronomy is similar to the B.A. in Physics, but with upper division work concentrated in astronomy. This program also provides excellent preparation technical writers, as well as observatory or planetarium staff.

The Bachelor of Science in Physics is designed to educate students who plan to pursue further education in physics or related fields (M.S. or Ph.D. programs), or who plan to seek employment as physicists, scientific associates, or technical staff members in industry, national laboratories, or academic laboratories. This program combines the education in physics fundamentals of the B.A. program with additional advanced courses, laboratory, and computer work, and more specialized work in a specialty such as solid state physics, optical physics, or computational physics. Students in this program are strongly encouraged to gain research experience. Graduates should have the fundamental mathematical, scientific, and learning skills to enable them to be lifelong learners who can rapidly master new scientific and technical developments.

The Bachelor of Science in Physics with a Concentration in Astrophysics is similar to the B.S. in Physics program, but with significant upper division work in astronomy, as appropriate for students planning employment or graduate study in the area of astrophysics. A senior project with thesis is required.

The Bachelor of Science in Physics with a Concentration in Physics for Teaching is designed for students interested in high school or middle school teaching. This program stresses education in physics fundamentals together with laboratory work and direct classroom teaching experience. Elective units enable students to gain a breadth of knowledge in one or more additional subjects important for high-school teachers, e.g., mathematics, general science, or chemistry. Students may also elect to take advantage of the department's single subject matter program in physics to demonstrate their preparedness to enter a credential program to complete their training as teachers.

A satisfactory score on an exit examination is required for all Bachelor's degrees.

A Minor in Physics and a Minor in Astronomy are available for students desiring a coherent program in physics or astronomy but one not as extensive as the B.A. It provides an excellent background for prospective secondary school teachers who wish to teach in physics or astronomy as well as in their major area, or for engineers who want additional depth in areas such as solid state physics or optical physics.

The goal of the Master of Science in Physics is to provide a solid, in-depth background in theoretical and experimental physics, appropriate for students pursuing further education in the field via Ph.D. programs in physics, astronomy, or certain engineering fields, or for those seeking employment as physicists/astronomers in physics/astronomy-related jobs and professions; e.g., as technical associates, laboratory physicists, physics or astronomy data analyzers, engineers, or in education as instructors in community colleges. This program combines advanced education in core physics topics with additional advanced courses, laboratory and computer work, and more concentrated work in a specialty such as solid state physics, particle physics, quantum optics, astrophysics, or computational physics. Students in this program are strongly encouraged to gain research experience.

The Master of Science in Physics with a concentration in Astronomy offers a program that is more closely tailored to students interested in careers in astronomy teaching and outreach, or employment in astronomical observatories and laboratories. It is also suitable for those seeking entry into Ph.D. programs in astronomy.

Professors
Chen, Cool, Golterman, Greensite, Lea, Marzke, Neuhauser

Associate Professors
Barranco, Mahdavi, Man

Assistant Professors
Jensen, Kane, Newaz

Adjunct Professors
Adler, Barsony, Lipschultz, Fischer, McCarthy

Lecturers
Bland, Caudy, Dhakal, Digel, Fielder, Magalhaes, Tennant, Wu, Yadak

Majors
• Bachelor of Arts in Physics (p. 1257)
• Bachelor of Arts in Physics: Concentration in Astronomy (p. 1264)
Bachelor of Science in Physics (p. 1271)
- Bachelor of Science in Physics: Concentration in Astrophysics (p. 1278)
- Bachelor of Science in Physics: Concentration in Physics for Teaching (p. 1285)

Minors
- Minor in Astronomy (p. 1292)
- Minor in Physics (p. 1292)

Masters
- Master of Science in Physics (p. 1292)
- Master of Science in Physics: Concentration in Astronomy (p. 1293)

Bachelor of Arts in Physics

Undergraduate Programs in Physics and Astronomy

High school preparation for these programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Some experience in computer programming is valuable. All students, especially those who have not completed a substantial chemistry course in high school, are strongly urged to take CHEM 115 and CHEM 215—CHEM 216 in their first year of college.

It is suggested that students in these programs consult with their advisor before selecting courses to meet General Education requirements. Unnecessary repetition of elementary topics might be avoided by careful selection of courses. A plan of study prepared in consultation with a department advisor is a prerequisite to entry into upper division study. Students who are considering teaching physics at the secondary school level should see a credential advisor in the department before planning the major since specific courses. A competency assessment is required for admission to the credential program.

- A maximum of 6 units taken CR/NC may be counted toward any undergraduate degree.
- All prerequisites for upper division courses must be completed with a grade of C– or better. See course descriptions for prerequisite requirements.

Physics (B.A.) — 52 units

Lower/Upper Division Prerequisites (27 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>LD</td>
<td>4</td>
<td>A1</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>LD</td>
<td>4</td>
<td>A2</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>LD</td>
<td>4</td>
<td>A3</td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>LD</td>
<td>4</td>
<td>B3</td>
</tr>
<tr>
<td>&amp; PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
<td>LD</td>
<td>4</td>
<td>B4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>LD</td>
<td>4</td>
<td>C1</td>
</tr>
<tr>
<td>&amp; PHYS 232</td>
<td>and General Physics with Calculus II Laboratory</td>
<td>LD</td>
<td>4</td>
<td>C2</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>General Physics with Calculus III</td>
<td>LD</td>
<td>4</td>
<td>C3</td>
</tr>
<tr>
<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
<td>LD</td>
<td>4</td>
<td>D1</td>
</tr>
</tbody>
</table>

Upper Division Requirements (25 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
<td>LD</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 330</td>
<td>Analytical Mechanics I</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Physics Project Laboratory</td>
<td>LD</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 491GW</td>
<td>Advanced Laboratory II - GWAR</td>
<td>LD</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics</td>
<td>LD</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

1 PHYS 490 and PHYS 491GW satisfy the GWAR requirement when taken in sequence in Fall 2010 or later.

Complementary Studies

Upon completion of the B.A. in Physics program, students will have taken 12 units of calculus courses that satisfy the Complementary Studies requirement for a B.A. degree.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B3</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B4</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
</tbody>
</table>
Social Sciences: LD 3 D2
US History
Social Sciences: LD 3 D3
US & CA Government
Lifelong Learning and Self-Development (LLD) LD or UD 3 E
Physical and/or Life Science UD 3 UD-B
Arts and/or Humanities UD 3 UD-C
Social Sciences UD 3 UD-D

SF State Studies
Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) LD or UD 3
Environmental Sustainability (ES) LD or UD 3
Global Perspectives (GP) LD or UD 3
Social Justice (SJ) LD or UD 3

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1260)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Physics. This roadmap opens in a new tab. (p. 1260)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Physics
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is
not automatically transferred from the previous institution. Units are
transferred only when an official score report is delivered to SF State.
Credit is based on the academic year during which exams were taken.
Refer to the University Bulletin in effect during the year of AP/IB/CLEP
examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and
mathematics (STEM) disciplines often defer 6–9 units of lower division
general education in areas C and D until after transfer in order to focus
on preparation courses for the major. (This advice does not apply to
students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements.
Note that, as described below, the four basic skills courses required for
admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses
that fulfill the remaining areas of SF State’s lower division GE pattern are
available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking
(GE A3) may not be widely offered outside the CCC and CSU systems.
Students should attempt to identify and take an appropriate course no
later than the term of application to the CSU. To review more information
about the A3 requirement, please visit http://bulletin.sfsu.edu/
undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition
course before transfer. This is usually the next course after the typical
“freshman comp” course, with a focus on writing, reading and critical
analytical skills for academic purposes, and developing skills in
composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets
both US and CA/local government requirements may be an appropriate
option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more
  quarter units
- Earn a college grade point average of 2.00 or better in all transferable
courses. Non-local area residents may be held to a higher GPA
  standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education,
  including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with
     intermediate algebra as a prerequisite (same as CSU GE area B4)

- The four basic skills courses and a minimum of 60 transferable
  semester units (90 quarter units) must be completed by the spring
  semester prior to fall admission, or by the fall semester prior to spring
  admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Physics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 52

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 245 or MATH 376</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or Ordinary Differential Equations I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 330</td>
<td>Analytical Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
<td>3</td>
</tr>
</tbody>
</table>
### GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two (^3)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units**: 15

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 360 Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370 Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 490 Physics Project Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Major Elective (On advisement. PHYS 460 or PHYS 325 recommended.)</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units**: 14

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 491GW Advanced Laboratory II - GWAR (^3)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 695 Culminating Experience in Physics</td>
<td>1</td>
</tr>
<tr>
<td>Major Elective (On advisement. PHYS 460 or PHYS 325 recommended.)</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Three (^3)</td>
<td>9</td>
</tr>
</tbody>
</table>

**Units**: 14

**Total Units**: 120

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**

   Upon completion of the B.A. in Physics program, students will have taken 12 units of calculus courses that satisfy the Complementary Studies requirement for a B.A. degree.

   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
# Bachelor of Arts in Physics – PHYS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Physics. Twenty-four units in the major (MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240 and PHYS 242) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>or Ordinary Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>PHYS 320 &amp; PHYS 321</td>
<td>Modern Physics I and Modern Physics Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met in transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 325</td>
<td>Modern Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td><strong>GE Area A: Written English Communication II (A4)</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Physics Project Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 491GW</td>
<td>Advanced Laboratory II - GWAR</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

1. Take PHYS 330 if MATH 245 complete.
2. A course in differential equations and linear algebra is required before taking PHYS 330 and PHYS 385. Students transferring in without an equivalent to MATH 245 must delay taking PHYS 330 and PHYS 385 until the following Fall semester, which will affect other elements of this sample roadmap. Time for degree completion may be affected. Students in this situation should consult with a department advisor for an alternate advising plan.
3. PHYS 320/PHYS 321 offered fall semesters only.
4. Take PHYS 385 if MATH 245 complete.
5. PHYS 325, PHYS 360, PHYS 370, PHYS 491GW and PHYS 695 offered spring semester only.
6. The Physics major requires a minimum of four elective units; PHYS 325 (offered in spring semesters) and PHYS 460 (offered in fall semesters) are strongly recommended.
To Do at SF State:

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units); US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
  - Students entering the major with the AS-T in Physics are not required to fulfill SF State Studies requirements.
- Complementary Studies is met in major with required mathematics.

**Physics B.A. Major: 25–28 Units**

MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240, and PHYS 242 met in transfer.

- Prerequisites (3 units if MATH 245 equivalent not completed before transfer; see note 2 above)
- Upper division Requirements (21 units)
- Upper division Electives (4 units; see note 7 above.)

**University Electives: 15 or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.
Bachelor of Arts in Physics: Concentration in Astronomy

Undergraduate Programs in Physics and Astronomy

High school preparation for these programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Some experience in computer programming is valuable. All students, especially those who have not completed a substantial chemistry course in high school, are strongly urged to take CHEM 115 and CHEM 215–CHEM 216 in their first year of college.

It is suggested that students in these programs consult with their advisor before selecting courses to meet General Education requirements. Unnecessary repetition of elementary topics might be avoided by careful selection of courses. A plan of study prepared in consultation with a department advisor is a prerequisite to entry into upper division study. Students who are considering teaching physics at the secondary school level should see a credential advisor in the department before planning the major since specific courses. A competency assessment is required for admission to the credential program.

- A maximum of 6 units taken CR/NC may be counted toward any undergraduate degree.
- All prerequisites for upper division courses must be completed with a grade of C– or better. See course descriptions for prerequisite requirements.

Physics (B.A.): Concentration in Astronomy — 52 units

Lower Division Prerequisites (27 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 115</td>
<td>Introduction to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 232</td>
<td>and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>General Physics with Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper Division Requirements (25 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 301</td>
<td>Observational Astronomy Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ASTR/PHYS 340GW</td>
<td>The Big Bang - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 470</td>
<td>Observational Techniques in Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics</td>
<td>1</td>
</tr>
<tr>
<td>Upper division electives</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

1 At least eight units of upper division astronomy, physics, geosciences, mathematics or related subjects, selected on advisement. No more than three units of 600 level courses may count toward this requirement.

Upon completion of the BA degree, students will have taken 12 units of calculus courses that satisfy the Complementary Studies requirement for a B.A. degree.

Note: A minimum of 40 upper division units must be completed for the degree (including upper division units required for the major, general education, electives, etc.). A student can complete this major yet not attain the necessary number of upper division units required for graduation. In this case, additional upper division courses will be needed to reach the required total.

Complementary Studies

Upon completion of the B.A. in Physics program, students will have taken 12 units of calculus courses that satisfy the Complementary Studies requirement for a B.A. degree.

Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/ Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning</td>
<td>LD or UD</td>
<td>3</td>
<td>E</td>
</tr>
</tbody>
</table>

(LLD)
A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division
general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
## Bachelor of Arts in Physics: Concentration in Astronomy Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 52

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 115</td>
<td>Introduction to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or Complementary Studies SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>17</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>16</td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>ASTR 301</td>
<td>Observational Astronomy Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 320 &amp; PHYS 321</td>
<td>Modern Physics I and Modern Physics Laboratory</td>
<td>5</td>
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<tr>
<td>GE Area C: Arts (C1)</td>
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</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
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<tr>
<td><strong>Sixth Semester</strong></td>
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<tr>
<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way</td>
<td>3</td>
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<tr>
<td>ASTR 340GW</td>
<td>The Big Bang - GWAR</td>
<td>3</td>
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<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
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</tbody>
</table>
Complementary Studies or SF State Studies or University Elective – Take Two

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>ASTR 470</td>
<td>3</td>
</tr>
<tr>
<td>Observational Techniques in Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHYS 480</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Optics &amp; Photonics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>1</td>
</tr>
<tr>
<td>Culminating Experience in Physics</td>
<td>1</td>
</tr>
<tr>
<td>Major Elective</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units 13

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Complementary Studies**  
   Upon completion of the B.A. in Physics program, students will have taken 12 units of calculus courses that satisfy the Complementary Studies requirement for a B.A. degree.  
   Students who have earned AA-T or AS-T degrees and are pursuing a similar B.A. degree at SF State are required to fulfill the Complementary Studies requirement as defined by the major department. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.

4. **Major Elective (8 units)**  
   At least 8 units of upper division astronomy, physics, geosciences, mathematics or related subjects, selected on advisement. No more than 3 units of 600 level courses may count toward this requirement.
Bachelor of Arts in Physics: Concentration in Astronomy – PHYS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Physics. Twenty-four units in the major (MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240 and PHYS 242) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 115</td>
<td>Introduction to Astronomy ¹</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 320 &amp; PHYS 321</td>
<td>Modern Physics I and Modern Physics Laboratory ¹</td>
<td>5</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if A4 was met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met in transfer</td>
<td></td>
<td></td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way ²</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 340GW</td>
<td>The Big Bang - GWAR ²</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
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<td>3</td>
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<tr>
<td><strong>Units</strong></td>
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</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 301</td>
<td>Observational Astronomy Laboratory ¹</td>
<td>2</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>13</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 470</td>
<td>Observational Techniques in Astronomy ²</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 480</td>
<td>Introduction to Optics &amp; Photonics ²</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics ²</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Electives</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Units</strong></td>
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<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

¹ ASTR 115, ASTR 301 and PHYS 320/PHYS 321 offered fall semesters only.
² ASTR 300, ASTR 340GW, ASTR 470, PHYS 480 and PHYS 695 offered spring semesters only.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–18 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
• Upper division GE, areas B, C and D (9 units)
• Students entering the major with the AS-T in Physics are not required to fulfill SF State Studies requirements.
• Complementary Studies is met in major with required mathematics.

**Physics B.A. (Astronomy) Major: 28 Units**
MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240 and PHYS 242 met in transfer.

• Prerequisites (3 units)
• Upper division Requirements (17 units)
• Upper division Electives (8 units) Selected on advisement. Units may be in astronomy, physics, geosciences, mathematics, or related subjects. No more than 3 units of 600-level courses may count towards elective units.

**University Electives: 14 or More Units**
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major. Upper division electives recommended in order to meet the minimum 40-unit requirement.
Bachelor of Science in Physics

Undergraduate Programs in Physics and Astronomy

High school preparation for these programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Some experience in computer programming is valuable. All students, especially those who have not completed a substantial chemistry course in high school, are strongly urged to take CHEM 115 and CHEM 215–CHEM 216 in their first year of college.

It is suggested that students in these programs consult with their advisor before selecting courses to meet General Education requirements. Unnecessary repetition of elementary topics might be avoided by careful selection of courses. A plan of study prepared in consultation with a department advisor is a prerequisite to entry into upper division study. Students who are considering teaching physics at the secondary school level should see a credential advisor in the department before planning the major since specific courses. A competency assessment is required for admission to the credential program.

- A maximum of 6 units taken CR/NC may be counted toward any undergraduate degree.
- All prerequisites for upper division courses must be completed with a grade of C– or better. See course descriptions for prerequisite requirements.

Physics (B.S.) — 71 units

Lower Division Prerequisites (27 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Level</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>LD</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>LD</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>LD</td>
<td>4</td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>LD or UD</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>LD</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>LD</td>
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Upper Division Requirements (44 units)

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<th>Units</th>
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<tbody>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
<td>LD</td>
<td>3</td>
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<tr>
<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
<td>LD</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 330</td>
<td>Analytical Mechanics I</td>
<td>LD</td>
<td>3</td>
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<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>LD</td>
<td>3</td>
</tr>
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<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
<td>LD</td>
<td>3</td>
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<td>PHYS 430</td>
<td>Quantum Mechanics I</td>
<td>LD</td>
<td>3</td>
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<tr>
<td>PHYS 457</td>
<td>Introduction to Analog Electronics</td>
<td>LD</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Electricity and Magnetism II</td>
<td>LD</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Physics Project Laboratory</td>
<td>LD</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<th>Level</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHYS 491G</td>
<td>Advanced Laboratory II - GWAR</td>
<td>UD</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics</td>
<td>UD</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division Electives: Astronomy, Physics, Mathematics, or related sciences</td>
<td>UD</td>
<td>10</td>
<td></td>
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</tbody>
</table>

1 Additional upper division elective units in astronomy, mathematics, or physics may be substituted for CSC 309 by students proficient in computer programming, subject to approval by the department chair.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral Communication</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Written English Communication I</td>
<td>LD</td>
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<td>A2</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English Communication II</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
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</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td>LD</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>LD</td>
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<td>D1</td>
</tr>
<tr>
<td>Social Sciences: US History</td>
<td>LD</td>
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<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>LD</td>
<td>3</td>
<td>D3</td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
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</tr>
<tr>
<td>Physical and/or Life Science</td>
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<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Ethnic and Racial Minorities (AERM)</td>
<td>UD</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Sustainability (ES)</td>
<td>UD</td>
<td>3</td>
</tr>
</tbody>
</table>

1271
General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission.
For more information, visit the Undergraduate Admissions section.

• Complete 60 or more transferable semester units or 90 or more quarter units
• Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
• Be in good standing at the last college or university attended
• Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
• The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
Bachelor of Science in Physics Roadmap

120 Total Units Required
Minimum Number of Units in the Major: 71

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
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</tr>
<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area B: Life Science (B2)</td>
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<td>3</td>
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<td>MATH 245 or MATH 376</td>
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<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
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<td>CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
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</tr>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
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<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
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<td>Title</td>
<td>Units</td>
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<tr>
<td>------------------------</td>
<td>-----------------------------------------------------</td>
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<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
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<tr>
<td>Major Elective (10 Units Total)</td>
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<td></td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
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**Units** 15

### Seventh Semester

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 430</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 457</td>
<td>Introduction to Analog Electronics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Physics Project Laboratory</td>
<td>2</td>
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</table>

**Units** 15

### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 460</td>
<td>Electricity and Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 491GW</td>
<td>Advanced Laboratory II - GWAR</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics</td>
<td>1</td>
</tr>
<tr>
<td>Major Elective (10 Units Total) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Units** 14

**Total Units** 120-121

---

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. **Major Electives (10 units)**  
   Upper division astronomy, physics, mathematics, or related sciences courses
# Bachelor of Science in Physics – PHYS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017-2018 with an AS-T in Physics. Twenty-four units in the major (MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240 and PHYS 242) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence.  

**Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** ([http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students](http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students)).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 470 or HIST 471</td>
<td>The U.S. Constitution to 1877 or The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
<tr>
<td>MATH 245 or MATH 376</td>
<td>Elementary Differential Equations and Linear Algebra or Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 320 &amp; PHYS 321</td>
<td>Modern Physics I and Modern Physics Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>14</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>RRS 600/HIST 466 or AIS 460</td>
<td>History of People of Color in the U.S. or Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I or Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met before transfer</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td>15</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>PHYS 430</td>
<td>Quantum Mechanics I or Electricity and Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Physics Project Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 490</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 431</td>
<td>Quantum Mechanics II or Introduction to Analog Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 457</td>
<td>Advanced Laboratory II – GWAR</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 491GW</td>
<td>Culminating Experience in Physics</td>
<td>1</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td>or University Elective if UD-B was already satisfied</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
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<td>University Elective</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

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1. HIST 470 and HIST 471 satisfy GE UD-C and US/CA Government.
2. Take PHYS 330 if MATH 245 complete.
A course in differential equations and linear algebra is required before taking PHYS 330 and PHYS 385. Students transferring in without an equivalent to MATH 245 must delay taking PHYS 330 and PHYS 385 until the following Fall semester, which will affect other elements of this sample advising plan. **Overall time for degree completion will be extended. Students in this situation should consult with a department advisor for an alternate advising plan.**

Phys 320/PHYS 321, PHYS 430, PHYS 460 and PHYS 490 are offered fall semesters only.

Take PHYS 385 if MATH 245 complete.

Students proficient in computer programming may substitute upper division units in astronomy, mathematics, or physics, subject to department chair’s approval. PHYS 325, offered in spring semesters, is a recommended substitute.

AIS 460 and RRS 600/HIST 466 also satisfy Upper Division GE: UD-D and US History.

Phys 360, Phys 370, Phys 431, Phys 457 and Phys 695 offered spring semesters only.

Phys 385 must be taken before Phys 360.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–12 Units**

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- Upper division GE (9 units): If necessary, specific choices can be made to satisfy the US History and Government requirements and UD-C and UD-D at the same time. See notes.
- Students entering the major with the AS-T in Physics are not required to fulfill SF State Studies or Complementary Studies requirements.

**Physics B.S. Major: 44–47 Units**

- Prerequisites (3 units if MATH 245 equivalent not completed before transfer; see note 3 above)
- Upper division Requirements (34 units)
- Upper division Electives (10 units): May be units in astronomy, physics, mathematics, or related sciences.

**University Electives: Four or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Bachelor of Science in Physics: Concentration in Astrophysics

Undergraduate Programs in Physics and Astronomy

High school preparation for these programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Some experience in computer programming is valuable. All students, especially those who have not completed a substantial chemistry course in high school, are strongly urged to take CHEM 115 and CHEM 215–CHEM 216 in their first year of college.

It is suggested that students in these programs consult with their advisor before selecting courses to meet General Education requirements. Unnecessary repetition of elementary topics might be avoided by careful selection of courses. A plan of study prepared in consultation with a department advisor is a prerequisite to entry into upper division study. Students who are considering teaching physics at the secondary school level should see a credential advisor in the department before planning the major since specific courses. A competency assessment is required for admission to the credential program.

- A maximum of 6 units taken CR/NC may be counted toward any undergraduate degree.
- All prerequisites for upper division courses must be completed with a grade of C− or better. See course descriptions for prerequisite requirements.

**Physics (B.S.): Concentration in Astrophysics – 71 units**

**Prerequisites (27 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 222</td>
<td>General Physics with Calculus I I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 232</td>
<td>General Physics with Calculus II I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>General Physics with Calculus III</td>
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<td>&amp; PHYS 242</td>
<td>General Physics with Calculus III I Laboratory</td>
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**Upper Division Requirements (44 units)**

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<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way</td>
<td>3</td>
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<td>ASTR 301</td>
<td>Observational Astronomy Laboratory</td>
<td>2</td>
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<tr>
<td>ASTR/PHYS 340GW</td>
<td>The Big Bang - GWAR</td>
<td>3</td>
</tr>
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<td>ASTR 400</td>
<td>Stellar Astrophysics</td>
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<tr>
<td>ASTR 470</td>
<td>Observational Techniques in Astronomy</td>
<td>3</td>
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<td>ASTR 498</td>
<td>Astronomy Research Literature</td>
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<tr>
<td>&amp; PHYS 695</td>
<td>and Culminating Experience in Physics</td>
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<tr>
<td>or ASTR 697</td>
<td>Senior Project</td>
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**General Education Requirements**

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<tr>
<td>Oral Communication</td>
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<td>A1</td>
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<tr>
<td>Written English Communication I</td>
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<tr>
<td>Critical Thinking</td>
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<td>A3</td>
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<td>Written English Communication II</td>
<td>LD</td>
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<td>A4</td>
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<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
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<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
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<td>B4</td>
</tr>
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<td>C1</td>
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<td>3</td>
<td>C3</td>
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<td>LD</td>
<td>3</td>
<td>D1</td>
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<td>Social Sciences: US &amp; CA Government</td>
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<td>3</td>
<td>D3</td>
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<td>Lifelong Learning</td>
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<tr>
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<td>UD-D</td>
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**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.
American Ethnic and Racial Minorities (AERM)  
LD or UD  
3  

Environmental Sustainability (ES)  
LD or UD  
3  

Global Perspectives (GP)  
LD or UD  
3  

Social Justice (SJ)  
LD or UD  
3  

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1281)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Physics. This roadmap opens in a new tab. (p. 1283)

This degree program is an approved pathway ("similar" major) for students earning the ADT in Physics
California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a "similar" major after transfer. Determinations about "similar" majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a "similar" major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students
1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs
Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses...
that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AEEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a “C” or better grade in each basic skills course.
## Bachelor of Science in Physics: Concentration in Astrophysics Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 71

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td></td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
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<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td>14</td>
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<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
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<tr>
<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
<td>4</td>
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<tr>
<td>GE Area B: Life Science (B2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>MATH 245 or MATH 376</td>
<td>Elementary Differential Equations and Linear Algebra or Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td></td>
</tr>
<tr>
<td><strong>Fifth Semester</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 330</td>
<td>Analytical Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>ASTR 301</td>
<td>Observational Astronomy Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ASTR 340GW</td>
<td>The Big Bang - GWAR</td>
<td>3</td>
</tr>
</tbody>
</table>

---

1. GE Area A: Oral Communication (A1) or Critical Thinking (A3)  
2. GE Area A: Written English Communication (A2)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seventh Semester</td>
<td></td>
</tr>
<tr>
<td>ASTR 400</td>
<td>Stellar Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 470</td>
<td>Observational Techniques in Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 430</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eighth Semester</td>
<td></td>
</tr>
<tr>
<td>ASTR 498 &amp; PHYS 695 or PHYS 697</td>
<td>Astronomy Research Literature or Senior Project</td>
<td>1-3</td>
</tr>
<tr>
<td>Major Elective (6 Units Total) - Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Units</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13-15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. **Major Electives (6 units)**
   Chosen from upper division courses in Physics or Astronomy with consent of an advisor. Three of the 6 units must be in a course numbered 400–499. Up to 1 unit of a 600 level course in ASTR.
Bachelor of Science in Physics: Concentration in Astrophysics – PHYS
Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Physics. Twenty-four units in the major (MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240, PHYS 242) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 301</td>
<td>Observational Astronomy Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MATH 245 or MATH 376</td>
<td>Elementary Differential Equations and Linear Algebra or Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 320</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 was met before transfer</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>14</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 340GW</td>
<td>The Big Bang - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>CSC 309</td>
<td>Computer Programming for Scientists and Engineers</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 460</td>
<td>Stellar Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 470 or HIST 471</td>
<td>The U.S. Constitution to 1877 or The U.S. Constitution since 1877</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 430</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 460</td>
<td>Electricity and Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD–B: Upper Division Physical and/or Life Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if UD-B is Already Satisfied</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 470</td>
<td>Observational Techniques in Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 498 &amp; PHYS 695 or ASTR 697</td>
<td>Astronomy Research Literature or Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>RRS 600/HIST 466 or AIS 460</td>
<td>History of People of Color in the U.S. or Power and Politics in American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Units</strong></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

1. ASTR 301, ASTR 400, PHYS 320, PHYS 430 and PHYS 460 offered fall semesters only.
2. Take PHYS 330 if MATH 245 complete.
A course in differential equations and linear algebra is required before taking PHYS 330 and PHYS 385. Students transferring in without an equivalent to MATH 245 must delay taking PHYS 330 and PHYS 385 until the following Fall semester, which will affect other elements of this sample roadmap. **Overall time for degree completion will be extended. Students in this situation should consult with a department advisor for an alternate advising plan.**

If ENG 214 or equivalent must be completed before enrollment in ASTR 340GW.

Take PHYS 385 if MATH 245 complete.

ASTR 300, ASTR 340GW, ASTR 470, ASTR 697, PHYS 360 and PHYS 370 offered spring semesters only.

PHYS 385 must be taken before PHYS 360.


AIS 460 and HIST 466 satisfy GE: UD-D and US History.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

**University-Wide Requirements: 9–12 Units**

- ENG 214 or equivalent A4 course if not completed prior to transfer (0–3 units)
- Upper division GE (9 units): If necessary, specific choices can be made to satisfy the US History and Government requirements and UD-C and UD-D at the same time. See notes.
- Students entering the major with the AS-T in Physics are not required to fulfill SF State Studies or Complementary Studies requirements.

**Physics B.S. (Astrophysics) Major: 44–47 units**

MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240, PHYS 242 met in transfer.

- Prerequisites (3 units if MATH 245 equivalent not completed before transfer; see note 3 above)
- Upper division Requirements (38 units)
- Upper division Electives (6 units): Units in physics or astronomy selected with consent of advisor. Three of the six elective units must be in course(s) numbered 400-499. No more than one unit of a 600-level ASTR course may count towards the electives.

**University Electives: Four or More Units**

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Bachelor of Science in Physics: Concentration in Physics for Teaching

Undergraduate Programs in Physics and Astronomy

High school preparation for these programs should include two years of algebra, one year of geometry, one-half year of trigonometry, one year of chemistry, and one year of physics. Some experience in computer programming is valuable. All students, especially those who have not completed a substantial chemistry course in high school, are strongly urged to take CHEM 115 and CHEM 215–CHEM 216 in their first year of college.

It is suggested that students in these programs consult their advisor before selecting courses to meet General Education requirements. Unnecessary repetition of elementary topics might be avoided by careful selection of courses. A plan of study prepared in consultation with a department advisor is a prerequisite to entry into upper division study. Students who are considering teaching physics at the secondary school level should see a credential advisor in the department before planning the major since specific courses. A competency assessment is required for admission to the credential program.

- A maximum of 6 units taken CR/NC may be counted toward any undergraduate degree.
- All prerequisites for upper division courses must be completed with a grade of C– or better. See course descriptions for prerequisite requirements.

Physics (B.S.): Concentration in Physics for Teaching – 64 units

Lower/Upper Division Prerequisites (27 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 228</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 245</td>
<td>Elementary Differential Equations and Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 376</td>
<td>Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>General Physics with Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>General Physics with Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 232</td>
<td>and General Physics with Calculus II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>General Physics with Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
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Upper Division Requirements (25 units)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHYS 320</td>
<td>Modern Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 330</td>
<td>Analytical Mechanics I</td>
<td>3</td>
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<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Physics Project Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYS 491GW</td>
<td>and Advanced Laboratory II - GWAR</td>
<td>3</td>
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</tbody>
</table>

Electives (12 units)

Selected in consultation with a departmental advisor to prepare to teach a second subject in addition to physics or general science at a 9th-grade level. Electives may be lower division or upper division courses.

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
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<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
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<tr>
<td>Written English</td>
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<tr>
<td>Communication I</td>
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<td></td>
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<tr>
<td>Critical Thinking</td>
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<td></td>
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<tr>
<td>Written English</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
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<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
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<td>Mathematics/ Quantitative Reasoning</td>
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<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
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<td>Arts or Humanities</td>
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<tr>
<td>Humanities: Literature</td>
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<tr>
<td>Social Sciences</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<td>Social Sciences: US History</td>
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</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td></td>
<td></td>
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<td>Lifelong Learning and Self-Development (LLD)</td>
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<td></td>
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</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
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<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

SF State Studies

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | UD or UD | 3 |
| Environmental Sustainability (ES) | | | |

1 PHYS 490 and PHYS 491GW satisfy the GWAR requirement when taken in sequence in Fall 2010 or later.
Global Perspectives (GP)  
LD or UD  3  
Social Justice (SJ)  
LD or UD  3  

Note: LD = Lower Division; UD = Upper Division.

First-Time Student Roadmap (4 Year)
This roadmap opens in a new tab. (p. 1288)

Transfer Student Roadmap (2 Year)
For students with an AA-T in Physics. This roadmap opens in a new tab. (p. 1290)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Physics

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.

2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLER.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.
Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units.
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended.
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Science in Physics: Concentration in Physics for Teaching Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 64

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>MATH 226</td>
<td>Calculus I</td>
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<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
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<td>GE Area A: Written English Communication (A2)</td>
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</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
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<td>GE Area C: Humanities: Literature (C3)</td>
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<td><strong>Units</strong></td>
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<tr>
<td>MATH 227</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220 &amp; PHYS 222</td>
<td>General Physics with Calculus I and General Physics with Calculus I Laboratory</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) or Written English Communication (A2) Stretch II</td>
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<td>MATH 228</td>
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<td>MATH 325</td>
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<td>PHYS 230 &amp; PHYS 232</td>
<td>General Physics with Calculus II and General Physics with Calculus II Laboratory</td>
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<td>GE Area B: Life Science (B2)</td>
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<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
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<td><strong>Units</strong></td>
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<td>MATH 245 or MATH 376</td>
<td>Elementary Differential Equations and Linear Algebra or Ordinary Differential Equations I</td>
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<tr>
<td>PHYS 240 &amp; PHYS 242</td>
<td>General Physics with Calculus III and General Physics with Calculus III Laboratory</td>
<td>4</td>
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<td>GE Area A: Written English Communication II (A4) if not already satisfied or SF State Studies or University Elective</td>
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<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<td><strong>Units</strong></td>
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<td>PHYS 320</td>
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<td>PHYS 321</td>
<td>Modern Physics Laboratory</td>
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<td>Major Elective (12 Units Total)</td>
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<tr>
<td>GE Area D: Social Sciences (D1)</td>
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<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
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<td><strong>Units</strong></td>
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### Sixth Semester

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<tr>
<td>PHYS 330</td>
<td>Analytical Mechanics I</td>
<td>3</td>
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<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SCI 652</td>
<td>SFSU Science Partners K-12 Schools</td>
<td>3</td>
</tr>
<tr>
<td>SF State Studies or University Elective</td>
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### Seventh Semester

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<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I</td>
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</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 490</td>
<td>Physics Project Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>SCI 652</td>
<td>SFSU Science Partners K-12 Schools</td>
<td>4</td>
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<td>Major Elective (12 Units Total)</td>
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### Eighth Semester

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PHYS 491GW</td>
<td>Advanced Laboratory II - GWAR</td>
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<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics</td>
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<td>Major Elective (12 Units Total) – Take Two</td>
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<tr>
<td>SF State Studies or University Elective – Take Two</td>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>13</th>
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</table>

| Total Units | 120 |

1. To avoid taking additional units, it is recommended that you meet LLD and SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

3. Selected in consultation with a departmental advisor to prepare to teach a second subject in addition to physics, or general science at 9th grade level. Electives may be lower-division or upper-division courses.
Bachelor of Science in Physics: Concentration in Physics for Teaching – PHYS Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AS-T in Physics. Twenty-four units in the major (MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240 and PHYS 242) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 245 or MATH 376</td>
<td>Elementary Differential Equations and Linear Algebra 1, 2 or Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 320 &amp; PHYS 321</td>
<td>Modern Physics I and Modern Physics Laboratory 3</td>
<td>5</td>
</tr>
<tr>
<td>US History (p. 74)</td>
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<td>3</td>
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<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D 4</td>
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<td>3</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Electricity and Magnetism I 5, 6</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370</td>
<td>Thermodynamics and Statistical Mechanics 5</td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td>or University Elective if A4 was met before transfer</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<td>15</td>
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<td>PHYS 490</td>
<td>Physics Project Laboratory 3</td>
<td>2</td>
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<tr>
<td>SCI 652</td>
<td>SFSU Science Partners K-12 Schools 3</td>
<td>4</td>
</tr>
<tr>
<td>Major Elective</td>
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<td>3</td>
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<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
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<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td>or University Elective if US/CA Government met before transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>PHYS 491GW</td>
<td>Advanced Laboratory II - GWAR 5</td>
<td>1</td>
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<tr>
<td>PHYS 695</td>
<td>Culminating Experience in Physics 5</td>
<td>1</td>
</tr>
<tr>
<td>Major Elective – Take Two</td>
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<td>6</td>
</tr>
<tr>
<td>Upper Division GE: UD-B, UD-C, or UD-D</td>
<td>or University Elective</td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
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<td>5</td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
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</table>

1. Take PHYS 330 if MATH 245 complete.
2. A course in differential equations and linear algebra is required before taking PHYS 330 and PHYS 385. Students transferring in without an equivalent to MATH 245 must delay taking PHYS 330 and PHYS 385 until the following Fall semester, which will affect other elements of this sample roadmap. Overall time for degree completion will be extended. Students in this situation should consult with a department advisor for an alternate advising plan.
3. PHYS 320/PHYS 321, PHYS 490 and SCI 652 offered fall semesters only.
Take PHYS 385 if MATH 245 complete.
PHYS 360, PHYS 370, PHYS 491GW and PHYS 695 offered spring semesters only.
PHYS 385 must be taken before PHYS 360.

To Do at SF State:
Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

University–Wide Requirements: 9–18 Units
- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B, C and D (9 units)
- Students entering the major with the AS-T in Physics are not required to fulfill SF State Studies or Complementary Studies requirements.

Physics B.S. (Teaching) Major: 37–40 Units
MATH 226, MATH 227, MATH 228, PHYS 220, PHYS 222, PHYS 230, PHYS 232, PHYS 240, PHYS 242 met in transfer.
- Prerequisites (3 units if MATH 245 equivalent not completed before transfer; see note 1 above)
- Upper division Requirements (25 units)
- Electives (12 units): May be lower or upper division. Selected in consultation with a department advisor; courses should prepare students to teach a second subject in addition to physics, or general science at 9th grade level.

University Electives: Five or More Units
Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. both in UD GE and the major.
Minor in Astronomy

Astronomy Minor – 19–23 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ASTR 115</td>
<td>Introduction to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 300</td>
<td>Stars, Planets, and the Milky Way</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 301</td>
<td>Observational Astronomy Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 121</td>
<td>and General Physics II</td>
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<tr>
<td>&amp; PHYS 122</td>
<td>and General Physics II Laboratory</td>
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<tr>
<td>or PHYS 220</td>
<td>General Physics with Calculus I</td>
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<tr>
<td>&amp; PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
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<td>&amp; PHYS 230</td>
<td>General Physics with Calculus II</td>
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<td>&amp; PHYS 232</td>
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<td>&amp; PHYS 240</td>
<td>General Physics with Calculus III</td>
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</tr>
<tr>
<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
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</tbody>
</table>

Upper Division Electives selected on advisement: 3

Graduate students are expected to attend colloquia and must attend at least five per semester unless excused by the graduate coordinator.

Written English Proficiency Requirement

The University has a requirement for written English proficiency that is to be assessed at two levels.

Level One (preadmission)

is satisfied by obtaining a score of 4.5 or above in the analytical writing portion of the GRE. Applicants who do not receive a minimum score of 4.5 on the GRE may be admitted conditionally and must complete SCI 614, SCI 5600W, or PHYS 340GW with a grade of B or better during the first year.

Level Two

is satisfied by submitting a thesis which your thesis committee agrees meets the level two standard, or by submitting a paper of at least ten pages which the graduate coordinator agrees meets the level two standard.

Examinations

The oral defense of the thesis is delivered to the student’s advisory committee and includes responses to questions from the committee on subjects related to the thesis topic. The master’s comprehensive oral examination (PHYS 896EXM) is delivered to the student’s advisory committee and covers all areas of theoretical and experimental physics deemed appropriate by the committee. The oral defense of thesis or master’s comprehensive oral examination may be repeated once, under conditions specified by the committee, upon petition by the student.

Prior to taking graduate courses numbered 700–799, M.S. students must pass a written examination in undergraduate-level physics. Those intending to concentrate in astronomy may also be separately tested on appropriate undergraduate-level material prior to taking astronomy courses numbered 700–799; testing will occur at the discretion of the graduate coordinator. The requirement may be satisfied by achieving a satisfactory score on the Physics Major Field Test or Physics GRE. While new graduate students may take graduate courses during their first semester with the department (in consultation with the graduate coordinator), they must pass this test before taking graduate courses in subsequent semesters. If a student fails to pass the test, he or she will be advised to take appropriate undergraduate courses to remedy those gaps that prevented him or her from passing the test. Tests taken more than six months prior to enrollment as a graduate student in the department do not fulfill this requirement.

Master of Science in Physics

Students wishing to be admitted to the Master of Science in physics program should have completed an undergraduate major in physics, with a minimum 3.0 grade point average in physics and mathematics courses, and minimum 3.0 GPA in the last 60 semester units. Students whose undergraduate degree is in another field may be admitted to conditionally classified status, but additional undergraduate-level course work will be required to make up the deficiency. Contact the graduate coordinator for further details.

Progress toward Degree

Classified or conditionally classified graduate students who do not successfully complete two courses per year toward their Advancement to Candidacy are subject to disqualification.

Minor in Physics

Physics Minor – 24 units

<table>
<thead>
<tr>
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<th>Description</th>
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<tr>
<td>PHYS 111</td>
<td>General Physics I</td>
<td>4</td>
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<tr>
<td>&amp; PHYS 112</td>
<td>and General Physics I Laboratory</td>
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<tr>
<td>PHYS 121</td>
<td>General Physics II</td>
<td>4</td>
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<td>&amp; PHYS 122</td>
<td>and General Physics II Laboratory</td>
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<tr>
<td>or PHYS 220</td>
<td>General Physics with Calculus I</td>
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<tr>
<td>&amp; PHYS 222</td>
<td>and General Physics with Calculus I Laboratory</td>
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<td>&amp; PHYS 232</td>
<td>and General Physics with Calculus II Laboratory</td>
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<td>PHYS 240</td>
<td>General Physics with Calculus III</td>
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<td>&amp; PHYS 242</td>
<td>and General Physics with Calculus III Laboratory</td>
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Upper Division Electives selected on advisement: 12

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<td>PHYS 325</td>
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<td>Thermodynamics and Statistical Mechanics</td>
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<tr>
<td>PHYS 385</td>
<td>Introduction to Theoretical Physics I</td>
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1 Recommended

M.S. – Minimum 30 units

Group I: Core Courses (15 units)

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<tr>
<th>Course</th>
<th>Description</th>
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<td>Classical Mechanics</td>
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<td>PHYS 704</td>
<td>Electricity and Magnetism I</td>
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<td>PHYS 706</td>
<td>Quantum Mechanics</td>
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<td>PHYS 775</td>
<td>Statistical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 785</td>
<td>Theoretical Physics</td>
<td>3</td>
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</table>

Group II: Graduate Physics Electives (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
</table>

Elective graduate physics or astronomy courses with numbers in the range from PHYS 700 - PHYS 790 and ASTR 700 - ASTR 798 only, (note that PHYS 800 - PHYS 899 do not count in this category).
**Group III: General Electives (6-9 units)**
Elective advanced upper division (numbered 400 or above) or graduate courses in physics, astronomy, or appropriately related subjects, selected on advisement and with approval of graduate coordinator (note that PHYS 800 - PHYS 899 count in this category). *Note: Students who choose the Culminating Experience Exam (PHYS 896EXM - 0 units) will choose 9 units of General Electives. Students who choose the Master's Thesis (3 units) will choose 6 units of General Electives.

**Group IV: Thesis and/or Oral Examination *(0-3 units)*
PHYS 896EXM Culminating Experience Examination 0
or
PHYS 898 Master's Thesis (and Oral Defense of Thesis) 3

*Note: Degree total to include no more than 6 units of PHYS 800 - PHYS 899, nor more than 4 units of PHYS 730.

**Master of Science in Physics: Concentration in Astronomy**

The Master of Science in Physics with a concentration in Astronomy is similar to the M.S. in Physics program, but with a selection of core courses that is better suited to those planning to pursue careers in astronomy teaching and outreach, or in astronomical observatories and laboratories. It is also suitable for those seeking entry into Ph.D. programs in astronomy.

**Progress toward Degree**
Classified or conditionally classified graduate students who do not successfully complete two courses per year toward their Advancement to Candidacy are subject to disqualification.

Graduate students are expected to attend colloquia and must attend at least five per semester unless excused by the graduate coordinator.

**Written English Proficiency Requirement**
The University has a requirement for written English proficiency that is to be assessed at two levels.

**Level One (preadmission)**
is satisfied by obtaining a score of 4.5 or above in the analytical writing portion of the GRE. Applicants who do not receive a minimum score of 4.5 on the GRE may be admitted conditionally and must complete SCI 614, SCI 560GW, or PHYS 340GW with a grade of B or better during the first year.

**Level Two**
is satisfied by submitting a thesis which your thesis committee agrees meets the level two standard, or by submitting a paper of at least ten pages which the graduate coordinator agrees meets the level two standard.

**Examinations**
The oral defense of the thesis is delivered to the student's advisory committee and includes responses to questions from the committee on subjects related to the thesis topic. The master's comprehensive oral examination (PHYS 896EXM) is delivered to the student's advisory committee and covers all areas of theoretical and experimental physics deemed appropriate by the committee. The oral defense of thesis or master's comprehensive oral examination may be repeated once, under conditions specified by the committee, upon petition by the student.

Prior to taking graduate courses numbered 700–799, M.S. students must pass a written examination on undergraduate-level physics. Those intending to concentrate in astronomy may also be separately tested on appropriate undergraduate-level material prior to taking astronomy courses numbered 700–799; testing will occur at the discretion of the graduate coordinator. The requirement may be satisfied by achieving a satisfactory score on the Physics Major Field Test or Physics GRE. While new graduate students may take graduate courses during their first semester with the department (in consultation with the graduate coordinator), they must pass this test before taking graduate courses in subsequent semesters. If a student fails to pass the test, he or she will be advised to take appropriate undergraduate courses to remedy those gaps that prevented him or her from passing the test. Tests taken more than six months prior to enrollment as a graduate student in the department do not fulfill this requirement.

**Physics (M.S.): Concentration in Astronomy — 30 units**

**Group I: Core Courses (12 units)**
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 722</td>
<td>Radiative Processes and Gas Dynamics in Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 742</td>
<td>Galaxies and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 770</td>
<td>Observational Techniques in Astronomy Research</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 701</td>
<td>Classical Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group II: Graduate Physics and Astronomy Electives (9 units)**
Elective graduate physics or astronomy courses with numbers in the range of PHYS 700–790 and ASTR 700–798 (Note: PHYS 800–899 do not count in this category).

The following are recommended:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 700</td>
<td>Stellar Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 798</td>
<td>Astronomy Research Literature</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 712</td>
<td>Physics of Plasmas</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 725</td>
<td>Special and General Relativity</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 740</td>
<td>Computational Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 775</td>
<td>Statistical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 785</td>
<td>Theoretical Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group III: General Electives (6–9 units)**
Elective advanced upper division (numbered 400 or above) or graduate courses in physics, astronomy, or appropriately related subjects, selected on advisement and with approval of graduate coordinator (note that PHYS 800–899 count in this category). *Note: Students who choose PHYS 896EXM (0 units) will take nine units of General Electives; students who choose PSY 898 (3 units) will take six units of General Electives.

**Group IV: Thesis and/or Oral Examination (0–3 units)**
PHYS 896EXM Culminating Experience Examination 0
or
PHYS 898 Master's Thesis 3
and Oral Defense of Thesis
Note: Degree total must include at least 15 units from courses numbered 700–899, but no more than 6 units of PHYS 800–PHYS 899 together, nor more than four units of PHYS 730.
PSYCHOLOGY

College of Science and Engineering
Dean: Keith Bowman

Department of Psychology
Ethnic Studies and Psychology Building, Room 301
Phone: (415) 338-2167
Fax: (415) 338-2398
Email: psych@sfsu.edu
Website: http://psychology.sfsu.edu
Chair: Dawn Terrell

Program Scope

Undergraduate Program
Psychology is a broad field of study and practice comprised of several different yet complementary areas of specialization. The Bachelor of Arts in Psychology is built around a core set of courses in theory and methods and three broad areas of study: basic psychological processes, psychological development and individual differences and social, cultural, organizational, and community contexts. Several themes of common interest extend across these broad areas including an appreciation for cultural and human diversity, ethics and values, a sense of individual empowerment, historical antecedents, critical thinking and the understanding of self and others.

The Bachelor of Arts in Psychology offers a foundation in the analysis and critical evaluation of psychological literature, the communication of psychological concepts and facts both orally and in writing, and the development of psychological research including design, data analysis, measurement, and basic computer operation. Our B.A. degree provides an excellent foundation for work in the community in many fields that involve human relations and behavior. In addition, the undergraduate degree is an excellent preparation for graduate school in all fields of psychology and other behavioral and social sciences as well as for graduate programs in business, law, medicine, and many other professional fields.

Impaction
The B.A. in Psychology program is impacted. This means that there are more students interested in studying psychology than the program can accommodate. Therefore, entrance into the program is a selective and competitive process. Applications must be received during the application filing period and no later than the November 30 deadline. Admissions decisions will be made in March or April of the following calendar year. Transfer applicants not admitted to the program, but who meet GE and University admissions requirements, will be admitted to their alternate majors. Continuing SF State students not admitted to the program will remain in their current majors.

Application Filing Periods
Applications for admissions to the psychology major are accepted only during the application filing period for the fall semester: October 1 to November 30 (for admission for the following fall). Applications are not accepted for spring semesters. Applications received outside of the fall semester open filing period will not be considered.

Transfer applicants from other colleges must submit an application via CSU Mentor at http://www.csumentor.edu.

Continuing SF State students must submit their application form directly to the psychology department.

Honors Thesis
Participation in an honors thesis is strongly recommended for students who plan to go to graduate school in psychology. Students need a written commitment by a psychology department faculty member who will agree to supervise the honors thesis, a 3.5 GPA in all upper division coursework, and senior standing. For more details, contact the Honors Thesis Coordinator.

Pre-Psychology
Pre-Psychology is designed for undeclared freshman and sophomore students who have an interest in the psychology major. During the two years prior to being admitted students should concentrate on completing their lower division GE requirements. Certain psychology courses can be used to meet these requirements: PSY 111 (A3), PSY 171 (B4), and PSY 200 (D1, E). Students apply to the Psychology major in the fall semester before they will reach 60 units. Students who have an interest in psychology should contact the department for academic advising.

Note: Completion of the pre-psychology program does not guarantee entry into the major program.

Career Outlook
The undergraduate program provides a foundation of skills and knowledge for careers both outside and inside of psychology. Since most jobs require a well-developed sense of how people function, a degree in psychology is often a desired background for positions in both government and industry. Undergraduate work in psychology includes training to develop the abilities to analyze critically and to understand complex behaviors, to deal with interpersonal problems, and to use research tools.

The following are some careers that graduates with bachelor’s degrees in psychology have entered.

Psychological Research and Development: – data analysis assistant; educational research assistant; public opinion poll-taker; research assistant in mental health; research design technician; statistician; survey interviewer.

Mental Health and Social Services: – alcohol treatment center assistant; child care program assistant; corrections counselor; counseling assistant; counselor; child/adolescent; crisis center counselor; drug abuse program assistant; psychiatric technician.

Business and Government: – employment interviewer; human factors assistant; human resources manager; personnel analyst; psychometrist; public relations assistant.

Teaching: – high school psychology instructor.

Graduate Programs and Career Preparation
The psychology department offers a Master of Arts in Psychology with concentrations in Developmental Psychology, Mind, Brain & Behavior, and Social Psychology. The department also offers a Master of Science in Psychology with concentrations in Clinical Psychology, Industrial/Organizational Psychology, and School Psychology. Students with master’s degrees in psychology may teach at a community college and may teach as lecturers at four-year colleges and universities. Each concentration has been designed to meet student needs and to qualify students for vocational goals relevant to that concentration. Close liaison
between students and advisors is an important feature of every graduate concentration.

The Developmental Psychology concentration focuses on life-span development from conception through aging. Major interest areas include social and emotional development, parent-child relations, family processes, sex differences, development across cultures and ethnic minority groups, learning, cognition, and psycholinguistics. The program is appropriate for students who wish to enter doctoral programs, and prepares them for academic, research, and applied careers in the field of child and developmental psychology.

The Mind, Brain, & Behavior concentration is for students seeking to become broadly informed and productive research psychologists who will be prepared to enter doctoral programs or perform competently as research associates in diverse areas of psychology. This program offers the opportunity for course work and research in such areas as biofeedback, emotion, physiological psychology, clinical research, program evaluation, psycholinguistics, and cognition. The program also prepares students for teaching in community colleges.

The Social Psychology concentration is designed to provide appropriate preparation and experience to students who intend to proceed to doctoral study, as well as for students who intend to develop careers at the master’s level in research, in community college teaching, or in applications of social psychology. The program emphasizes achievement of competency in research skills (design, implementation, and interpretation of findings), familiarity with the theoretical and empirical literature of the discipline, and proficiency in application of social psychology to the solution of social problems; e.g., peace and conflict resolution, intergroup relations, and cultural diversity in modern society.

The Clinical Psychology concentration is intended to qualify students to provide mental health services in community mental health centers, schools, hospitals, private practice, managed care, and similar careers. The program provides the academic preparations and pre-master’s supervised hours required for the State of California Marriage and Family Therapy license.

The program with an Industrial-Organizational concentration is designed to qualify students for professional careers in organizational behavior and human resource functions in business, industry, or government; or for doctoral programs in industrial/organizational psychology.

By completing the School Psychology concentration, some additional coursework, and an internship experience, students can qualify for the State of California Pupil Personnel Services Credential with authorization in School Psychology. This preparation qualifies students for a career as a School Psychologist in California public and private schools.

Professors
Ben-Zeev, Colvin, Cookston, Gard, Geisler, Harris, Kim, Lewis, Matsumoto, Miller, Paap, Terrell, Wright

Associate Professors
Howell, Morsella, Paik, Smith, Tate

Assistant Professors
Barber, Eschleman, Hagan, Holley, Mello, Rodriguez, Suri

Majors
• Bachelor of Arts in Psychology (p. 1296)

Minors
• Minor in Psychology
This minor is under temporary suspension. Please contact department for further information.

Masters
• Master of Arts in Psychology: Concentration in Developmental Psychology (p. 1306)
• Master of Arts in Psychology: Concentration in Mind, Brain & Behavior (p. 1306)
• Master of Arts in Psychology: Concentration in Social Psychology (p. 1307)
• Master of Science in Psychology: Concentration in Clinical Psychology (p. 1307)
• Master of Science in Psychology: Concentration in Industrial/Organizational Psychology (p. 1308)
• Master of Science in Psychology: Concentration in School Psychology (p. 1309)

Credential
• Pupil Personnel Services Credential: School Psychology Designation (p. 1310)

Bachelor of Arts in Psychology

Prerequisite Core
PSY 200 (or equivalent) is a prerequisite for all upper division psychology courses. PSY 171 (or any quantitative reasoning course) is a prerequisite for PSY 371. ENG 214 (or a course that satisfies the lower division writing requirement) is a prerequisite for both PSY 305GW and PSY 400. PSY 371 is a prerequisite for all non-GE upper division psychology courses (PSY 371 may be taken concurrently with other major courses).

Degree Requirements
The major includes 14 units of core curriculum, 18 units of basic courses, and nine units of electives. Because of high demand, enrollment priority is given to psychology major students in all upper division psychology courses; courses numbered 300 and above are not open to freshman.

• Psychology majors must take PSY 200, PSY 305GW, PSY 371, and PSY 400 for a letter grade and achieve a grade of C or better in all four courses.
• Majors must achieve a grade of CR in PSY 303 and PSY 690.

Writing Competence
Good writing skills are necessary for success in the major. Students whose writing needs improvement should work on their skills by taking additional composition courses or by completing writing tutorials. Psychology majors who successfully complete PSY 305GW will have satisfied the University Graduation Writing Assessment Requirement (GWAR).
Psychology (B.A.) – 41 Units
Core Curriculum (14 Units)
Core courses should be taken in the order listed below.

PSY 200 General Psychology 3
PSY 303 Psychology: The Major and the Profession (online) 1
PSY 371 Psychological Statistics 3
PSY 400 Introduction to Research in Psychology 3
PSY 305GW Contemporary Issues in Psychology - GWAR 3
PSY 690 Future Directions for Psychology Majors (online) 1

Basic Courses (18 Units)
Choose two courses from each of the following Areas 1 through 3:

- Area 1: Basic Psychological Processes (6)
- Area 2: Psychological Development and Individual Differences (6)
- Area 3: Social, Cultural, Organizational and Community Contexts (6)

Electives (9 Units)
Choose 3 elective courses from courses in Areas 1–3 and/or from additional upper-division psychology courses

Areas of Study
Area 1: Basic Psychological Processes

PSY 432 Cognitive Development: Language, Thinking, and Perception 3
PSY 492 Perception 3
PSY 493 Motivation 3
PSY 494 Cognitive Psychology 3
PSY 495 The Psychology of Human Memory 3
PSY 498 Cognitive Neuroscience: Psychological Models 3
PSY 491 Learning 3
PSY 531 Psycholinguistics 3
PSY 581 Physiological Psychology I 3
PSY 582 Physiological Psychology II 3

Area 2: Psychological Development and Individual Differences

PSY 430 Adolescent Psychology 3
PSY 431 Developmental Psychology 1 3
PSY 433 Social, Emotional, and Personality Development 3
PSY 434 The Psychology of Aging 3
PSY 435 Behavior Problems of Children 3
PSY/SXS 436 The Development of Femaleness and Maleness 4
PSY 442 Health Psychology 3
PSY 451 Theories of Personality 3
PSY 452 Abnormal Psychology: Minor Variants of Personality 3
PSY 521 Introduction to Clinical Psychology 3

Area 3: Social, Cultural, Organizational and Community Contexts

PSY 440 Social Psychology 3
PSY 441 The Psychology of the Family 3
PSY 455 Cross-Cultural Perspectives in Psychology 3
PSY/SXS 456 Psychology of Human Sexual Behavior 3
PSY 461 Introduction to Industrial/Organizational Psychology 3
PSY 462 Personnel Psychology 3
PSY 463 Human Factors 3
PSY 465 The Psychology of Work-Life Stress 3
PSY 466 Training and Development in Organizations 3
PSY 472 Introduction to Legal Psychology 3
PSY 474 Psychology of Social Justice 3
PSY 475 Psychology of Policing 3
PSY 525 Community Psychology 3
PSY 547 Social Conflict and Conflict Resolution 3
PSY 558 Field Services Seminar 3
& PSY 559 and Psychological Field Service 3
PSY 645 Group Processes 3

Additional Courses That May Be Used for Electives

PSY 300 Current Issues in Psychology 3
PSY/SXS 320 Sex and Relationships 3
PSY 330 Child Development 1 3
PSY 443 The Science of Happiness 3
PSY 450/ SXS 400/SOC 400 Variations in Human Sexuality 3
PSY 571 Intermediate Psychological Statistics 3
PSY 601 Theoretical Backgrounds in Psychology 3
PSY 668 The Psychology of Leadership 3
PSY 680 Peer Advising in Psychology 3
PSY 685 Projects in the Teaching of Psychology 3
PSY 693 Proseminar I 3
PSY 694 Proseminar II 3
PSY 697 Senior Project Preparation 3
PSY 698 Senior Project in Psychology 3
PSY 699 Independent Study in Psychology 1-4

1 Students may not use PSY 330 as an elective if they have taken PSY 431.

Complementary Studies
Bachelor of Arts students must complete at least 12 units of complementary studies from courses with a prefix other than PSY, and not cross-listed with PSY. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the Psychology major include 12 units of languages other than English, 12 units from an approved Study Abroad program, 12 units from partial completion of a certificate, or 12 units from any combination of courses in ANTH, BIO, CAD, CJ, CSC, COUN, EDUC, ETHS, PHIL, and SOC, or a coherent group of courses approved by a major advisor as complementary to the major. All of the units must be separate from units counted in the major. Courses which fulfill the complementary studies requirement may be lower or upper division units, resident or transfer units, or units taken in approved study abroad programs. Consult with your major advisor for assistance.

Students who have earned AA-T or AA-S degrees may use courses from community colleges to fulfill the Complementary Studies requirement provided the course has a prefix other than Psychology. Students should consult with a major advisor about how transfer units and/or SF State
units can best be applied to this requirement in order to ensure degree completion within 60 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Level</th>
<th>Units</th>
<th>Area Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD</td>
<td>3</td>
<td>A1</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Communication I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>LD</td>
<td>3</td>
<td>A3</td>
</tr>
<tr>
<td>Written English</td>
<td>LD</td>
<td>3</td>
<td>A4</td>
</tr>
<tr>
<td>Communication II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td>LD</td>
<td>3</td>
<td>B1</td>
</tr>
<tr>
<td>Life Science</td>
<td>LD</td>
<td>3</td>
<td>B2</td>
</tr>
<tr>
<td>Lab Science</td>
<td>LD</td>
<td>1</td>
<td>B3</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>LD</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Arts</td>
<td>LD</td>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>Arts or Humanities</td>
<td></td>
<td></td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Humanities: Literature</td>
<td>LD</td>
<td>3</td>
<td>C3</td>
</tr>
<tr>
<td>Social Sciences: History</td>
<td>LD</td>
<td>3</td>
<td>D1</td>
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<tr>
<td>Social Sciences: US History</td>
<td></td>
<td></td>
<td>D2</td>
</tr>
<tr>
<td>Social Sciences: US &amp; CA Government</td>
<td>3</td>
<td>D3</td>
<td></td>
</tr>
<tr>
<td>Lifelong Learning and Self-Development (LLD)</td>
<td>3</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Physical and/or Life Science</td>
<td>UD</td>
<td>3</td>
<td>UD-B</td>
</tr>
<tr>
<td>Arts and/or Humanities</td>
<td>UD</td>
<td>3</td>
<td>UD-C</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>UD</td>
<td>3</td>
<td>UD-D</td>
</tr>
</tbody>
</table>

**SF State Studies**

Courses certified as meeting the SF State Studies requirements may be upper or lower division in General Education (GE), in a major or minor, or an elective.

American Ethnic and Racial Minorities (AERM) | LD or UD | 3 |
Environmental Sustainability (ES)        | LD or UD | 3 |
Global Perspectives (GP)                 | LD or UD | 3 |
Social Justice (SJ)                      | LD or UD | 3 |

Note: LD = Lower Division; UD = Upper Division.

**Transfer Student Roadmap (2 Year)**

For students with an AA-T in Psychology. This roadmap opens in a new tab. (p. 1304)

This degree program is an approved pathway (“similar” major) for students earning the ADT in Psychology

California legislation SB 1440 (2009) mandated the creation of the Associate Degree for Transfer (ADT) to be awarded by the California Community Colleges. Two types of ADTs are awarded: Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T). Note: no specific degree is required for admission as an upper-division student. However, the ADT includes specific guarantees related to admission and graduation, and is designed to clarify the transfer process and strengthen lower-division preparation for the major.

An ADT totals 60 units and includes completion of all lower-division General Education requirements and at least 18 units in a specific major. Students pursuing an ADT are guaranteed admission to the CSU if minimum eligibility requirements are met, though not necessarily to the CSU campus of primary choice.

Upon verification that the ADT has been awarded prior to matriculation at SF State, students are guaranteed B.A. or B.S. completion in 60 units if pursuing a “similar” major after transfer. Determinations about “similar” majors at SF State are made by faculty in the discipline.

Degree completion in 60 units cannot be guaranteed when a student simultaneously pursues an additional major, a minor, certificate, or credential.

A sample advising roadmap for students who have earned an ADT and continue in a “similar” major at SF State is available on the Roadmaps tab and displays:

- How many lower-division units required for the major have been completed upon entry based on award of a specific ADT;
- Which lower-division requirements are considered complete upon entry based on award of a specific ADT;
- How to complete the remaining 60 units for the degree in four semesters.

Students who have earned an ADT should seek advising in the major department during the first semester of attendance.

**General Advising Information for Transfer Students**

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   - a course in U.S. History
   - a course in U.S. & California Government
   - a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://
www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

- Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;

Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6-9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

Transferring from institutions other than CCCs or CSUs

Review SF State's lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State's lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL.

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical "freshman comp" course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

All students must meet the transfer eligibility requirements outlined below for admission. For more information, visit the Undergraduate Admissions section.

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  a. One course in oral communication (same as CSU GE area A1)
  b. One course in written composition (same as CSU GE area A2)
  c. One course in critical thinking (same as CSU GE area A3)
  d. One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
# Bachelor of Arts in Psychology Roadmap

120 Total Units Required  
Minimum Number of Units in the Major: 41

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 171</td>
<td>Quantitative Reasoning in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication (A2)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area C: Arts (C1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area A: Oral Communication (A1) or Critical Thinking (A3)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or Written English Communication (A2) Stretch II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Physical Science (B1) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
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<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15-16</strong></td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>PSY 200</td>
<td>General Psychology</td>
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<tr>
<td>GE Area A: Written English Communication II (A4) if not already satisfied</td>
<td></td>
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</tr>
<tr>
<td>or Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GE Area B: Life Science (B2) and Laboratory Science (B3)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GE Area D: U.S. History (D2) or U.S. and California Government (D3)</td>
<td></td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
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</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15-16</strong></td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>GE Area C: Arts (C1) or Humanities (C2)</td>
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<tr>
<td>GE Area C: Humanities: Literature (C3)</td>
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<tr>
<td><strong>Fifth Semester</strong></td>
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<tr>
<td>PSY 303</td>
<td>Psychology: The Major and the Profession</td>
<td>1</td>
</tr>
<tr>
<td>PSY 305GW</td>
<td>Contemporary Issues in Psychology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>PSY 371</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Basic Courses (18 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-B: Upper Division Physical and/or Life Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Sixth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Courses (18 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-C: Upper Division Arts and/or Humanities (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
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<td>Complementary Studies or SF State Studies or University Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Seventh Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Courses (18 units) – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Electives (9 units)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Area UD-D: Upper Division Social Sciences (Consider SF State Studies Course)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
### Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 690 Future Directions for Psychology Majors</td>
<td>1</td>
</tr>
<tr>
<td>Basic Courses (18 units) – Take Two 6</td>
<td>6</td>
</tr>
<tr>
<td>Electives (9 units) 5</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Studies or SF State Studies or University Elective – Take Two 4</td>
<td>5</td>
</tr>
<tr>
<td>Total Units</td>
<td>120-122</td>
</tr>
</tbody>
</table>

1. To avoid taking additional units, it is recommended that you meet **LLD and SF State Studies requirements** (AERM, GP, ES, SJ) within your GE or major.
2. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.
3. Consider taking a class combined with a laboratory or a separate lab to fulfill B3 if not already satisfied.
4. **Complementary Studies**

- Bachelor of Arts students must complete at least 12 units of complementary studies from courses with a prefix other than PSY, and not cross-listed with PSY. (Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major).
- Students who complete two majors or a major and a minor automatically complete the complementary studies requirement. Additional ways to complete complementary studies for students in the Psychology major include 12 units of languages other than English, 12 units from an approved Study Abroad program, 12 units from partial completion of a certificate, or 12 units from any combination of courses in ANTH, BIO, CAD, CJ, CSC, COUN, EDUC, ETHS, PHIL, and SOC, or a coherent group of courses approved by a major advisor as complementary to the major. All of the units must be separate from units counted in the major. Courses which fulfill the complementary studies requirement may be lower or upper division units, resident or transfer units, or units taken in approved study abroad programs. Consult with your major advisor for assistance.
- Students who have earned AA-T or AA-S degrees may use courses from community colleges to fulfill the Complementary Studies requirement provided the course has a prefix other than Psychology. Students should consult with a major advisor about how transfer units and/or SF State units can best be applied to this requirement in order to ensure degree completion within 60 units.
5 Basic Courses (18 units)
Choose two courses from each of the following Areas 1 through 3:

• Area 1: Basic Psychological Processes (6)
  - PSY 432 Cognitive Development: Language, Thinking, and Perception (3 units)
  - PSY 492 Perception (3 units)
  - PSY 493 Motivation (3 units)
  - PSY 494 Cognitive Psychology (3 units)
  - PSY 495 The Psychology of Human Memory (3 units)
  - PSY 498 Cognitive Neuroscience: Psychological Models (3 units)
  - PSY 491 Learning (3 units)
  - PSY 531 Psycholinguistics (3 units)
  - PSY 581 Physiological Psychology I (3 units)
  - PSY 582 Physiological Psychology II (3 units)

• Area 2: Psychological Development and Individual Differences (6)
  - PSY 430 Adolescent Psychology (3 units)
  - PSY 431 Developmental Psychology (3 units)
  - PSY 433 Social, Emotional, and Personality Development (3 units)
  - PSY 434 The Psychology of Aging (3 units)
  - PSY 435 Behavior Problems of Children (3 units)
  - PSY 436 The Development of Femaleness and Maleness (4 units)
  - PSY 442 Health Psychology (3 units)
  - PSY 451 Theories of Personality (3 units)
  - PSY 452 Abnormal Psychology: Minor Variants of Personality (3 units)
  - PSY 521 Introduction to Clinical Psychology (3 units)

• Area 3: Social, Cultural, Organizational and Community Contexts (6)
  - PSY 440 Social Psychology (3 units)
  - PSY 441 The Psychology of the Family (3 units)
  - PSY 455 Cross-Cultural Perspectives in Psychology (3 units)
  - PSY 456 Psychology of Human Sexual Behavior (3 units)
  - PSY 461 Introduction to Industrial/Organizational Psychology (3 units)
  - PSY 462 Personnel Psychology (3 units)
  - PSY 463 Human Factors (3 units)
  - PSY 465 The Psychology of Work-Life Stress (3 units)
  - PSY 466 Training and Development in Organizations (3 units)
  - PSY 472 Introduction to Legal Psychology (3 units)
  - PSY 474 Psychology of Social Justice (3 units)
  - PSY 475 Psychology of Policing (3 units)
  - PSY 525 Community Psychology (3 units)
  - PSY 547 Social Conflict and Conflict Resolution (3 units)
  - PSY 558 Field Services Seminar (2 units)
  - and PSY 559 Psychological Field Service (1-3 units)
  - PSY 645 Group Processes (3 units)

6 Electives (9 units)
Choose 3 elective courses from courses in Areas 1~3 and/or from the following additional upper-division psychology courses:
  - PSY 300 Current Issues in Psychology (3 units)
  - PSY 320 Sex and Relationships (3 units)
  - PSY 330 Child Development (3 units)
  - PSY 443 The Science of Happiness (3 units)
  - PSY 450 Variations in Human Sexuality (3 units)
  - PSY 571 Intermediate Psychological Statistics (3 units)
  - PSY 601 Theoretical Backgrounds in Psychology (3 units)
  - PSY 668 The Psychology of Leadership (3 units)
  - PSY 680 Peer Advising in Psychology (3 units)
  - PSY 685 Projects in the Teaching of Psychology (1-4 units)
  - PSY 693 Proseminar I (3 units)
  - PSY 694 Proseminar II (3 units)
  - PSY 697 Senior Project Preparation (3 units)
  - PSY 698 Senior Project in Psychology (3 units)
  - PSY 699 Independent Study in Psychology (1-4 units)
Students may not use PSY 330 as an elective if they have taken PSY 431.
# Bachelor of Arts in Psychology – PSY Associate Degree for Transfer Roadmap

This is a sample pathway for students who transfer to San Francisco State University in 2017–2018 with an AA-T in Psychology. Three units in the major (PSY 200) and all lower division GE requirements have been satisfied. Additional units in the major may have been satisfied. Check with a major advisor about the most appropriate course sequence. **Degree completion guaranteed in 60 units; see the Associate Degree for Transfer (ADT) section for more information** (http://bulletin.sfsu.edu/undergraduate-admissions/transfer-students).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 303</td>
<td>Psychology: The Major and the Profession</td>
<td>1</td>
</tr>
<tr>
<td>PSY 371</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 431</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 440</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>GE Area A: Written English Communication II (A4) or University Elective if A4 met before transfer</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 305GW</td>
<td>Contemporary Issues in Psychology - GWAR</td>
<td>3</td>
</tr>
<tr>
<td>PSY 400</td>
<td>Introduction to Research in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Major Area 1: Basic Psychological Processes</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>US History (p. 74)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US History met before transfer</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 435</td>
<td>Behavior Problems of Children¹</td>
<td>3</td>
</tr>
<tr>
<td>Major Area 1: Basic Psychological Processes</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Upper Division GE: UD-B or UD-C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>U.S. and California Government (p. 75)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or University Elective if US/CA Government met before transfer</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY 474</td>
<td>Psychology of Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>PSY 690</td>
<td>Future Directions for Psychology Majors</td>
<td>1</td>
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<tr>
<td>Major Elective – Take Two</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>University Elective</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Units</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>60</td>
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</tbody>
</table>

¹ PSY 435 also satisfies GE UD-D.

**To Do at SF State:**

Enough total units to reach 120 minimum for graduation; 40 units minimum at the upper division level; to include the following:

### University-Wide Requirements: 6–15 Units

- ENG 214 or equivalent A4 course (0–3 units) if not taken before transfer
- American Institutions (0–6 units): US History, US Government, California State and Local Government requirements if not taken before transfer
- Upper division GE, areas B and C (9 units): Major requirement also satisfies UD-D. See notes.
- Students entering this major with the AA-T in Psychology are not required to fulfill SF State Studies requirements.
• Complementary Studies: consult with a department advisor on how transfer units and/or SF State units can be applied to ensure degree completion within 60 units.

Psychology Major: 38 Units

PSY 200 met in transfer.

• Core Requirements (11 units)
• Basic Courses (18 units): Choose two courses from Areas 1, 2, and 3
• Electives (9 units): Choose courses in Areas 1–3 and/or additional upper-division psychology courses

University Electives: Seven or More Units

Depends on course choices made at the community college, how transferred units are applied to the requirements above, and course choices at SF State. Some courses may meet more than one requirement, e.g. in both UD GE and the major.
Master of Arts in Psychology: Concentration in Developmental Psychology

Program Coordinator: Jeff Cookston

Graduate Programs in Psychology

Application to a graduate program is a two-part process:

- Part One is the University application submitted to the Division of Graduate Studies.
- Part Two is the program application that must be submitted to the Psychology Department.

Part One and Part Two of the graduate admission application must be submitted by the deadline to be considered for admission. The department accepts applications for the fall semester only, with a deadline of February 1st. The clinical and school psychology programs generally require an interview, during the admissions process.

Applicants to each psychology graduate program are required to submit the results of the Graduate Record Examination — verbal, quantitative, and writing sections. Applicants should check the current application of the program they are applying to for the other requirements.

Students who intend to work toward the M.A. or the M.S. in Psychology must meet the prerequisites outlined at the beginning of each concentration.

Undergraduate deficiencies are to be rectified, as the graduate advisor deems fit, without being included as part of the program for a master’s degree.

In order to advance to candidacy, graduate students must meet all the general requirements for the specific program in which they are involved.

Written English Proficiency Requirement

Level One
Score of 4.0 or better on the GRE Analytical Writing Test.

Level Two
Satisfactory completion of the master’s thesis (PSY 898).

Prerequisites
A background in elementary statistics and developmental psychology (introductory course)

Psychology (M.A.): Concentration in Developmental Psychology — Minimum 35 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 730</td>
<td>Seminar in Current Issues in Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 735</td>
<td>Seminar in Developmental Psychology (3 units each/2 semesters, 6 units total; variant topics required)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 737</td>
<td>Laboratory in Observation of Children’s Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY 739</td>
<td>Technical Writing for Psychological Journals</td>
<td>1</td>
</tr>
<tr>
<td>PSY 770</td>
<td>Research Methods and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSY 771</td>
<td>Analysis of Variance and Experimental Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (3 units)
with approval of graduate major advisor.

Master of Arts in Psychology: Concentration in Mind, Brain & Behavior

Program Coordinators: Mark Geisler, Avi Ben-Zeev

Graduate Programs in Psychology

Application to a graduate program is a two-part process:

- Part One is the University application submitted to the Division of Graduate Studies.
- Part Two is the program application that must be submitted to the Psychology Department.

Part One and Part Two of the graduate admission application must be submitted by the deadline to be considered for admission. The department accepts applications for the fall semester only, with a deadline of February 1st. The clinical and school psychology programs generally require an interview, during the admissions process.

Applicants to each psychology graduate program are required to submit the results of the Graduate Record Examination — verbal, quantitative, and writing sections. Applicants should check the current application of the program they are applying to for the other requirements.

Students who intend to work toward the M.A. or the M.S. in Psychology must meet the prerequisites outlined at the beginning of each concentration.

Undergraduate deficiencies are to be rectified, as the graduate advisor deems fit, without being included as part of the program for a master’s degree.

In order to advance to candidacy, graduate students must meet all the general requirements for the specific program in which they are involved.

Written English Proficiency Requirement

Level One
Score of 4.0 or better on the GRE Analytical Writing Test.

Level Two
Satisfactory completion of the master’s thesis (PSY 898).

Prerequisites
A course in statistical methods and a course either in experimental psychology or psychological research methods; or a course combining statistics and research methods.

**Psychology (M.A.): Concentration in Mind, Brain & Behavior — Minimum 35 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSY 771</td>
<td>Analysis of Variance and Experimental Design</td>
<td>4</td>
</tr>
<tr>
<td>PSY 772</td>
<td>Applications of Multiple Regression to Psychological Research</td>
<td>4</td>
</tr>
<tr>
<td>PSY 770</td>
<td>Research Methods and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSY 792</td>
<td>Proseminar in Foundations of Contemporary Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>PSY 798</td>
<td>Research Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>PSY 799</td>
<td>Supervised Selected Research</td>
<td>5</td>
</tr>
<tr>
<td>PSY 891</td>
<td>Seminar in Selected Problems (or Elective course approved by graduate advisor)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 896</td>
<td>Directed Reading</td>
<td>3</td>
</tr>
<tr>
<td>PSY 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Upper Division/Graduate Units (6 units)**

in psychology or allied fields approved by graduate major advisor.

**Master of Arts in Psychology: Concentration in Social Psychology**

Program Coordinator: Charlotte Tate

**Graduate Programs in Psychology**

Application to a graduate program is a two-part process:

- Part One is the University application submitted to the Division of Graduate Studies.
- Part Two is the program application that must be submitted to the Psychology Department.

Part One and Part Two of the graduate admission application must be submitted by the deadline to be considered for admission. The department accepts applications for the fall semester only, with a deadline of February 1st. The clinical and school psychology programs generally require an interview, during the admissions process.

Applicants to each psychology graduate program are required to submit the results of the Graduate Record Examination — verbal, quantitative, and writing sections. Applicants should check the current application of the program they are applying to for the other requirements.

Students who intend to work toward the M.A. or the M.S. in Psychology must meet the prerequisites outlined at the beginning of each concentration.

Undergraduate deficiencies are to be rectified, as the graduate advisor deems fit, without being included as part of the program for a master’s degree.

In order to advance to candidacy, graduate students must meet all the general requirements for the specific program in which they are involved.

**Written English Proficiency Requirement**

**Level One**

Score of 4.0 or better on the GRE Analytical Writing Test.

**Level Two**

Satisfactory completion of the master’s thesis (PSY 898).

**Prerequisites**

A broad undergraduate major in psychology or a related discipline, including preparation in social psychology and such areas as personality theory, group processes, research methods, and statistics. Students who have not had a recent upper-division course in social psychology and students who are not competent in statistics at the intermediate level are required to remedy these deficiencies during their first year in the program.

**Psychology (M.A.): Concentration in Social Psychology — Minimum 34 units**

**Core Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 740</td>
<td>Seminar in Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 742</td>
<td>Seminar in Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>PSY 751</td>
<td>Seminar in Current Trends and Issues</td>
<td>3</td>
</tr>
<tr>
<td>PSY 770</td>
<td>Research Methods and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSY 771</td>
<td>Analysis of Variance and Experimental Design</td>
<td>4</td>
</tr>
<tr>
<td>PSY 772</td>
<td>Applications of Multiple Regression to Psychological Research</td>
<td>4</td>
</tr>
<tr>
<td>PSY 792</td>
<td>Proseminar in Foundations of Contemporary Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>PSY 798</td>
<td>Research Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>PSY 799</td>
<td>Supervised Selected Research</td>
<td>3</td>
</tr>
<tr>
<td>PSY 891</td>
<td>Seminar in Selected Problems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Can be substituted with an elective chosen with prior written approval of advisor and program coordinator

**Master of Science in Psychology: Concentration in Clinical Psychology**

Program Coordinator: David Gard

The M.S. in Psychology with a concentration in Clinical Psychology provides students with a degree that confers eligibility to sit for the State of California Marriage and Family Therapy license after completing 3,000 approved hours, 1,700 hours of which must be acquired post-master’s.

**Graduate Programs in Psychology**

Application to a graduate program is a two-part process:

- Part One is the University application submitted to the Division of Graduate Studies.
- Part Two is the program application that must be submitted to the Psychology Department.

Part One and Part Two of the graduate admission application must be submitted by the deadline to be considered for admission. The department accepts applications for the fall semester only, with a
deadline of February 1st. The clinical and school psychology programs generally require an interview, during the admissions process.

Applicants to each psychology graduate program are required to submit the results of the Graduate Record Examination — verbal, quantitative, and writing sections. Applicants should check the current application of the program they are applying to for the other requirements.

Students who intend to work toward the M.A. or the M.S. in Psychology must meet the prerequisites outlined at the beginning of each concentration.

Undergraduate deficiencies are to be rectified, as the graduate advisor deems fit, without being included as part of the program for a master’s degree.

In order to advance to candidacy, graduate students must meet all the general requirements for the specific program in which they are involved.

**Written English Proficiency Requirement**

**Level One**
Score of 4.0 or better on the GRE Analytical Writing Test or equivalent.

**Level Two**
Satisfactory completion of the Comprehensive Written Examination (PSY 896 or PSY 896EXM [0 units]) or PSY 898 Master’s Thesis.

**Prerequisites**

Preparation in psychology, or in other fields which emphasize understanding of human functioning, as any of the social sciences or, in some instances, in fields that deal with specialized forms of human expression and experience. Required prerequisites are course work in psychological statistics and upper division courses in personality theory and abnormal psychology. Course work in developmental psychology and cultural perspectives is desirable. Preparation should also include experience working directly with people in a helping or service-oriented situation.

**Psychology (M.S.): Concentration in Clinical Psychology — 60 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 723</td>
<td>Clinical Methods: Psychological Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PSY 724</td>
<td>Clinical Issues: Drugs, Brain, and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSY 728</td>
<td>Conference to Accompany Psychology Practicum</td>
<td></td>
</tr>
<tr>
<td>PSY 729</td>
<td>Psychology Practicum</td>
<td>3-6</td>
</tr>
<tr>
<td>PSY 753</td>
<td>Seminar in Therapeutic and Developmental Change I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 754</td>
<td>Seminar in Therapeutic and Developmental Change II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 821</td>
<td>Clinical Methods: Diagnosis and Advanced Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 822</td>
<td>Clinical Methods: Marital and Family Systems Theory and Therapy</td>
<td>3</td>
</tr>
<tr>
<td>PSY 828</td>
<td>Conference to Accompany Advanced Psychology Practicum</td>
<td>6</td>
</tr>
<tr>
<td>PSY 829</td>
<td>Advanced Psychology Practicum</td>
<td>3-12</td>
</tr>
<tr>
<td>PSY 891</td>
<td>Seminar in Selected Problems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 896</td>
<td>Directed Reading</td>
<td>3-6</td>
</tr>
<tr>
<td>or PSY 898</td>
<td>Master’s Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**Master of Science in Psychology: Concentration in Industrial/Organizational Psychology**

Program Coordinator: Chris Wright

**Graduate Programs in Psychology**

Application to a graduate program is a two-part process:

- Part One is the University application submitted to the Division of Graduate Studies.
- Part Two is the program application that must be submitted to the Psychology Department.

Part One and Part Two of the graduate admission application must be submitted by the deadline to be considered for admission. The department accepts applications for the fall semester only, with a deadline of February 1st. The clinical and school psychology programs generally require an interview, during the admissions process.

Applicants to each psychology graduate program are required to submit the results of the Graduate Record Examination — verbal, quantitative, and writing sections. Applicants should check the current application of the program they are applying to for the other requirements.

Students who intend to work toward the M.A. or the M.S. in Psychology must meet the prerequisites outlined at the beginning of each concentration.

Undergraduate deficiencies are to be rectified, as the graduate advisor deems fit, without being included as part of the program for a master’s degree.

In order to advance to candidacy, graduate students must meet all the general requirements for the specific program in which they are involved.

**Written English Proficiency Requirement**

**Level One**
Score of 4.0 or better on the GRE Analytical Writing Test or equivalent.

**Level Two**
Satisfactory completion of the Comprehensive Written Examination (PSY 896 or PSY 896EXM [0 units]) or PSY 898 Master’s Thesis.

**Prerequisites**

Course work in intermediate statistics plus completion of 15 units in psychology.

**Psychology (M.S.): Concentration in Industrial/Organizational Psychology — Minimum 36 – 37 units**

**Data Collection and Analysis Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 770</td>
<td>Research Methods and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSY 771</td>
<td>Analysis of Variance and Experimental Design</td>
<td>4</td>
</tr>
<tr>
<td>or PSY 772</td>
<td>Applications of Multiple Regression to Psychological Research</td>
<td></td>
</tr>
</tbody>
</table>
Core Industrial/Organizational Courses

PSY 761 Industrial and Organizational Psychology 3
PSY 760 Seminar in Organizational Psychology 3
PSY 762 Seminar in Industrial Psychology 3
PSY 765 Industrial Training Program Development 3
PSY 766 Psychological Foundations of Organizational Change 3
PSY 768 Seminar to Accompany Field Experience in Industrial/Organizational Psychology 3
PSY 769 Field Experience in Industrial/Organizational Psychology 3

Electives (6 units)
from the following or other courses with approval of advisor

PSY 740 Seminar in Social Psychology 3
PSY 742 Seminar in Survey Research 3
PSY 799 Supervised Selected Research 2-6
PSY 899 Independent Study 1-3

Culminating Experience: 3 units

PSY 896 Directed Reading (and PSY 896EXM Comprehensive Written Examination (0 units)) 3-6
PSY 898 Master's Thesis 3

Master of Science in Psychology: Concentration in School Psychology

Program Coordinator: Diane Harris

This M.S. in Psychology, concentration in School Psychology leads to the Pupil Personnel Services Credential with authorization in School Psychology. Designed primarily for full-time SF State students, an M.S. is earned after successful completion of the fourth semester and the Pupil Personnel Services Credential with an authorization in School Psychology is awarded after successful completion of the sixth semester in the program.

Graduate Programs in Psychology

Application to a graduate program is a two-part process:

- Part One is the University application submitted to the Division of Graduate Studies.
- Part Two is the program application that must be submitted to the Psychology Department.

Part One and Part Two of the graduate admission application must be submitted by the deadline to be considered for admission. The department accepts applications for the fall semester only, with a deadline of February 1st. The clinical and school psychology programs generally require an interview, during the admissions process.

Applicants to each psychology graduate program are required to submit the results of the Graduate Record Examination – verbal, quantitative, and writing sections. Applicants should check the current application of the program they are applying to for the other requirements.

Students who intend to work toward the M.A. or the M.S. in Psychology must meet the prerequisites outlined at the beginning of each concentration.

Undergraduate deficiencies are to be rectified, as the graduate advisor deems fit, without being included as part of the program for a master’s degree.

In order to advance to candidacy, graduate students must meet all the general requirements for the specific program in which they are involved.

Prerequisites

Acceptance into the M.S. program is based upon evidence of psychological experience with children and families in institutions such as schools and service-oriented settings. Academic preparation is demonstrated by the capacity to make use of graduate-level academic work and professional training. These qualifications may be assessed by record of previous academic accomplishments in psychology or other related fields that emphasize an understanding of children and their families and include临床 work experience. Students entering the program should have completed courses in statistics and research, clinical, developmental, abnormal psychology, learning, personality, and cross-cultural psychology.

Written English Proficiency Requirement

Level One
Score of 4.0 or better on the GRE Analytical Writing Test or equivalent.

Level Two
Satisfactory completion of the Comprehensive Writing Examination (PSY 896 or PSY 896EXM [0 units]) or PSY 898 Master’s Thesis.

Psychology (M.S.): Concentration in School Psychology — Minimum 57 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 721</td>
<td>Clinical Methods: Assessment of Intelligence and Perceptual-Motor Functioning</td>
<td>3</td>
</tr>
<tr>
<td>PSY 722</td>
<td>Clinical Methods: Personality Appraisal and Projective Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSY 770</td>
<td>Research Methods and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSY 728</td>
<td>Conference to Accompany Psychology Practicum</td>
<td>3-6</td>
</tr>
<tr>
<td>PSY 729</td>
<td>Psychology Practicum</td>
<td>3-6</td>
</tr>
<tr>
<td>PSY 753</td>
<td>Seminar in Therapeutic and Developmental Change I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 754</td>
<td>Seminar in Therapeutic and Developmental Change II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 829</td>
<td>Advanced Psychology Practicum</td>
<td>3-6</td>
</tr>
<tr>
<td>PSY 855</td>
<td>Seminar in Professional School Psychology</td>
<td>3</td>
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<tr>
<td>COUN 719</td>
<td>Behavior Management</td>
<td>3</td>
</tr>
<tr>
<td>COUN 827</td>
<td>The Consultation Process</td>
<td>3</td>
</tr>
<tr>
<td>SPED 763</td>
<td>Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 772</td>
<td>Assessment, Curriculum, and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>SPED 788</td>
<td>Law, Ethics, and Instructional Planning</td>
<td>3</td>
</tr>
<tr>
<td>SPED 801</td>
<td>Development, Diversity, and English Language Learners: Special Education</td>
<td>3</td>
</tr>
<tr>
<td>PSY 896 &amp; 896EXM</td>
<td>Directed Reading and Culminating Experience Examination (0 units)</td>
<td>3</td>
</tr>
<tr>
<td>or PSY 898</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>
Pupil Personnel Services Credential: School Psychology Designation

The Pupil Personnel Services Credential is offered through the College of Extended Learning (CEL). To be eligible for the program, students may have completed the M.S. in Psychology from SF State with a concentration in School Psychology. Individuals who have attained an M.S. in Psychology with a concentration in School Psychology or a related master’s or doctoral degree from another university must have completed equivalent academic courses, a minimum of 576 hours of school psychology-related experience in schools supervised by a credentialed school psychologist, and all prerequisites and requirements for admission to the Pupil Personnel Services Credential: School Psychology Designation.

For information regarding prerequisites and eligibility requirements for the Program, review and complete all application procedures located on the Pupil Personnel Services Credential: School Psychology Designation website accessed through the Psychology Department’s website. A fee will be charged to evaluate and determine eligibility for the program.

Pupil Personnel Services Credential: School Psychology Designation – 24 units

Courses listed below are required for the Pupil Personnel Services Credential with a School Psychology authorization

Professional Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 858</td>
<td>Conference to Accompany Psychology Internship</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>(3 units per semester, 6 per year)</td>
<td></td>
</tr>
<tr>
<td>PSY 859</td>
<td>Psychology Internship (6 units per semester, 12 per year)</td>
<td>12</td>
</tr>
<tr>
<td>PSY 891</td>
<td>Seminar in Selected Problems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 899</td>
<td>Independent Study</td>
<td>3</td>
</tr>
</tbody>
</table>
ALL-UNIVERSITY PROGRAMS

Interdisciplinary Studies (Graduate)
Division of Graduate Studies
Interim Dean: Mi-Sook Kim
ADM 254
(415) 338-2234

Note: Admission only by permission. Meeting with graduate advisor required. Please see the Graduate Advisor for information on graduate program options. grad.sfsu.edu/content/current-students/graduate-studies-advising (http://grad.sfsu.edu/content/current-students/graduate-studies-advising)

Program Scope
Graduate Major
A degree in Interdisciplinary Studies is offered as a Master of Arts and a Master of Science to meet the unique needs and interests of students that cannot be met in a reasonable manner by one of the regularly offered graduate degree programs at SF State. Students pursuing an Interdisciplinary Studies program must develop a 30–36 unit plan of study that draws on courses from multiple disciplines with the intent to integrate the concepts, perspectives, and methodologies of those disciplines into a focused, central theme which may lead to new ways of looking at a subject, issues or problem. Usually, courses must be selected from three departments bridging at least two colleges within the University.

The courses to be applied toward the major must be carefully selected for their interrelatedness and general applicability to the objectives of the unique major being proposed. Only major themes that can be supported with integrity by existing coursework and faculty expertise will be approved. Determination of degree designation as an M.S. or M.A. is the decision of the major advisor and the Dean of Graduate Studies. This degree cannot be used to meet credential or licensing requirements. Students may not use courses from fields of study, such as, nursing, physical therapy or counseling which lead to licensure or certification unless a single course is specifically authorized by the department chair.

Budget restrictions by the State of California may close off acceptance of new students in these programs at any time without prior notice.

Eligibility for the Program
All applicants to this program must be eligible for admission to post-baccalaureate study as specified in the graduate admissions (p. 115) section of this Bulletin. The applicant should present evidence of a minimum 3.25 grade point average in the baccalaureate degree or in the last 60 semester units taken, and a pattern of undergraduate course work which will provide the foundation for the advanced degree work in the approved Interdisciplinary Studies major. Students must demonstrate English competency and proficiency before beginning the program which can be met by earning a score of 4.5 or better on the Graduate Record Exam (GRE) or GMAT analytical writing section. Students who have earned a masters or doctoral degree will be exempted from the pre-admission writing requirement, however; writing will be assessed based on the applicant’s required essays.

Final approval to pursue an interdisciplinary study degree is made by the Dean of Graduate Studies after all outstanding problems have been resolved.

Written English Proficiency Requirement
The University has a requirement for written English proficiency that is to be assessed at two different points in a student’s program. Level One must be met prior to admission. See above in Eligibility for the Program. A student who fails to meet the writing criteria will not be admitted.

Level Two is determined toward the end of the student’s program. The dean of Graduate Studies and faculty overseeing the program will assess Level Two writing through review of a final paper from a selected graduate course that requires intensive writing. In addition, the major advisor, in consultation with other committee members as necessary, will determine that the student writes in a “scholarly” manner in the subject area (theme) of the program. Most often the satisfactory completion of a master’s thesis or a written field research project will satisfy this second level requirement. How this second level requirement is being met must be indicated on the Advancement to Candidacy (ATC) form.

Advising for the Program
The applicant is responsible for developing the program proposal and obtaining the endorsements of three tenured/tenure-track faculty members of the university eligible to work in graduate programs as defined in the University Bulletin. The primary responsibility for academic program advising will rest with the members of this committee, especially the major advisor. The major advisor must come from a department/program in which a significant amount of the program course work is to be taken. At least one of the committee members must come from a different department/program from the primary focus of the student’s proposal. The Dean of Graduate Studies is responsible for the general administration of the program in lieu of the traditional college and department. Students interested in the Interdisciplinary Studies program should meet with a graduate advisor in Administration Building room 254. See the Graduate Studies website for advising information.

Program Requirements
Students in the Interdisciplinary Studies major must complete all requirements for a master’s degree (p. 120) offered by the university. In addition, students in the Interdisciplinary Studies program are expected to meet the following standards:

- Maintain close contact with the major advisor and other committee members in order to assure that the program is carefully planned, and that satisfactory progress is made toward its completion.
- Maintain a 3.0 GPA every semester in all coursework specified for the degree. CR/NC courses are not allowed except for the culminating experience course.
- Make continuous progress toward the degree in every semester until graduation, taking no fewer than nine units toward the degree each year. Courses not related to the degree are not permitted.
- Complete the 30–36 unit degree in no more than five years from the date of enrollment.

Advancement to Candidacy (ATC)
The Advancement to Candidacy form must:

- Include a minimum of 30 semester units of coursework exclusive of special (individual) study, experimental, transfer, and credit-by-examination type of credit; that includes courses from three disciplinary areas as specified by the degree advisors;
• Include a minimum of three units of a research methodology and three units of statistics beyond elementary statistics (e.g. MATH 124).
• At least 70 percent of the units required for the degree must be in graduate level courses (i.e., numbered 700 and above on this campus);
• Include no more than 12 units of coursework in any one discipline;
• Make provision for a three unit culminating experience requirement (e.g., 898, thesis; 894, creative work project; 895, field research project; etc.) that utilizes a committee of three faculty advisors sitting on the student’s committee; and
• Include the signature of the major and second advisors. The dean of Graduate Studies will review and approve the ATC in lieu of a college coordinator and on behalf of the university.

General Procedures for the Program
Developing an Interdisciplinary Studies degree takes a great deal of initiative, independent thought, and follow-through by the student. To initiate the process:

1. Meet with a Graduate Studies advisor to review program requirements and processes for developing a proposal.
2. Meet with the dean of Graduate Studies to discuss degree program.
3. Identify and meet with the primary faculty advisor and two additional tenured or tenure-line faculty members at SF State campus who have the expertise and interest in advising and supporting you in the proposed program of study. The primary faculty advisor must be from a department that offers a graduate degree. Lecturer faculty may not serve on Interdisciplinary Studies committees because lecturer faculty may not be available each semester for advising.
4. When the proposal form has been approved by all three advisors, submit the proposal with the faculty signatures to the Dean of the Graduate Studies for final approval. Following approval, you must be admitted to the University via the online CSU Mentor system.

Special Major
Division of Undergraduate Education and Academic Planning
Interim Dean: Lori Beth Way
Undergraduate Advising Center
ADM 211
(415) 338-2103

Program Scope
Undergraduate Major
The Bachelor of Arts: Special Major is offered by San Francisco State University for those students who have unique academic goals, which cannot be satisfactorily attained through one of the regularly offered undergraduate major programs of San Francisco State University or other colleges and universities in the Bay Area. The special major consists of a combination of courses planned in advance to focus on an integrative and coherent theme identified by the student. A written statement must be developed which describes the goals of the proposed major. The program must be compatible with the general objectives of the university. Courses must be chosen by the student from at least three different departments in at least two different colleges of the university. (Department means any program area of the university offering course work.)

A special major may not duplicate any existing major programs, by name or content, which are offered at San Francisco State University, nor may it be used as a means of bypassing regularly prescribed graduation requirements. It must be planned and approved in advance, not created as an afterthought to utilize previously completed courses.

Bachelor of Arts: Special Major
Admission to the Program
In order to apply for a special major, a student must first be admitted to San Francisco State University. Special major status is granted only after consultation with an adviser and approval of the student’s proposal. Students may apply for admission to the special major program during or after their first semester of attendance at SF State.

Eligibility for the Program
Special major applicants are expected to have completed a minimum of 45 and a maximum of 90 units of university study with a cumulative grade point average of 3.0 (B). Records of such work, e.g., unofficial transcripts, degree progress report, and Advanced Standing Evaluation (if a transfer student), must be presented to the appropriate academic adviser in the special major program. In unusual circumstances, a student may request an exception to this provision.

Advising for the Program
Advising for students pursuing a special major is provided at the Undergraduate Advising Center by academic counselors designated by the Dean of Undergraduate Education and Academic Planning who is responsible for the coordination and overall administration of the program. Coursework in the major program must be approved in advance by departments offering the courses. Please be aware that some departments restrict course enrollment to their own majors.

To initiate the special major approval process, consult the advising website at http://advising.sfsu.edu/special-major.

General Advising Information for Transfer Students

1. Before transfer, complete as many lower division requirements or electives for this major as possible.
2. The following courses are not required for admission, but are required for graduation. Students are strongly encouraged to complete these units before transfer; doing so will provide more flexibility in course selection after transfer.
   • a course in U.S. History
   • a course in U.S. & California Government
   • a 2nd-semester course in written English composition

For information about satisfying the requirements described in (1) and (2) above at a California Community College (CCC), please visit http://www.assist.org. Check any geographically accessible CCCs; sometimes options include more than one college. Use ASSIST to determine:

• Which courses at a CCC satisfy any lower division major requirements for this major, including 2nd-semester composition;
Remedial courses are not transferable and do not apply to the minimum 60 units/90 quarters required for admission.

Additional units for courses that are repeated do not apply to the minimum 60 units required for upper division transfer (for example, if course was not passed on the first attempt, or was taken to earn a better grade).

Before leaving the last California community college of attendance, obtain a summary of completion of lower division General Education units (IGETC or CSU GE Breadth). This is often referred to as a GE certification worksheet. SF State does not require delivery of this certification to Admissions, but students should retain this document for verifying degree progress after transfer.

Credit for Advanced Placement, International Baccalaureate, or College-Level Examination Program courses: AP/IB/CLEP credit is not automatically transferred from the previous institution. Units are transferred only when an official score report is delivered to SF State. Credit is based on the academic year during which exams were taken. Refer to the University Bulletin in effect during the year of AP/IB/CLEP examination(s) for details regarding the award of credit for AP/IB/CLEP.

Students pursuing majors in science, technology, engineering and mathematics (STEM) disciplines often defer 6–9 units of lower division general education in areas C and D until after transfer in order to focus on preparation courses for the major. (This advice does not apply to students pursuing associate degree completion before transfer.)

**Transferring from institutions other than CCCs or CSUs**

Review SF State’s lower division General Education requirements. Note that, as described below, the four basic skills courses required for admission meet A1, A2, A3, and B4 in the SF State GE pattern. Courses that fulfill the remaining areas of SF State’s lower division GE pattern are available at most two-year and four-year colleges and universities.

Of the four required basic skills courses, a course in critical thinking (GE A3) may not be widely offered outside the CCC and CSU systems. Students should attempt to identify and take an appropriate course no later than the term of application to the CSU. To review more information about the A3 requirement, please visit [http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL](http://bulletin.sfsu.edu/undergraduate-education/general-education/lower-division/#AAEL).

Identify and complete a 2nd-semester written English composition course before transfer. This is usually the next course after the typical “freshman comp” course, with a focus on writing, reading and critical analytical skills for academic purposes, and developing skills in composing, revising, and the use of rhetorical strategies.

Waiting until after transfer to take a single course at SF State that meets both US and CA/local government requirements may be an appropriate option, particularly if transferring from outside of California.

**All students must meet the transfer eligibility requirements outlined below for admission.**

**For more information, visit the Undergraduate Admissions section.**

- Complete 60 or more transferable semester units or 90 or more quarter units
- Earn a college grade point average of 2.00 or better in all transferable courses. Non-local area residents may be held to a higher GPA standard.
- Be in good standing at the last college or university attended
- Complete 30 semester units (45 quarter units) of general education, including four basic skills courses:
  - One course in oral communication (same as CSU GE area A1)
  - One course in written composition (same as CSU GE area A2)
  - One course in critical thinking (same as CSU GE area A3)
  - One course in mathematics or quantitative reasoning, with intermediate algebra as a prerequisite (same as CSU GE area B4)
- The four basic skills courses and a minimum of 60 transferable semester units (90 quarter units) must be completed by the spring semester prior to fall admission, or by the fall semester prior to spring admission. Earn a "C" or better grade in each basic skills course.
MICHAEL ALBERT (1977), Professor of Management; B.A. (1972), State University of New York, Albany; M.B.A. (1974), Ph.D. (1977), Georgia State University.


MICHELLE ALEGRIA-HARTMAN (2004), Adjunct Professor of Biology; B.A. (1982), University of California, Berkeley; B.S. (1985), M.A. (1993), San Francisco State University; Ph.D. (2002), University of California, Davis.

DIANE ALLEN (2008), Associate Professor of Physical Therapy; B.S. (1978), University of California, San Francisco; M.S. (1991), University of North Carolina, Chapel Hill; Ph.D. (2005), University of California, Berkeley.

GWEN ALLEN (2007), Associate Professor of Art; B.A. (1994), Smith College; M.A. (1999), Stanford University; Ph.D. (2004), Stanford University.

SARAH ALLEN (2004), Adjunct Professor of Biology;

TOMÁS ALMAGUER (2000), Professor of Latina/Latino Studies; B.A. (1971), University of California, Santa Barbara; Ph.D. (1979), University of California, Berkeley.

FRANK ALMEDA (1998), Adjunct Professor of Biology; B.A. (1968), University of South Florida; Ph.D. (1975), Duke University.

KIMBERLEY WIDIC ALTURA (2001), Associate Dean of Undergraduate Studies; B.A. (1994), University of Maryland, College Park; M.S. (1997), San Francisco State University.

GABRIELA E. ALVARENGA (2005), Academic Counselor, Undergraduate Advising Center; B.A. (1999), M.S. (2001), San Francisco State University.


DAVID ANDERSON (1996), Professor of Kinesiology; B.Ed. (1987), Kuring-gai College of Advanced Education, Sydney, Australia; M.A. (1990), Long Beach State University; Ph.D. (1994), Louisiana State University.

MARC ANDERSON (2007), Associate Professor of Chemistry and Biochemistry; B.S. (1995), University of Colorado, Boulder; Ph.D. (2001), University of California, Santa Cruz.


JOSEPHINE ARCE (1998), Professor of Elementary Education; B.A. (1976), University of California, Santa Barbara; M.A. (1978), California State University, Los Angeles; Ed.D. (1997), University of San Francisco.

MICHAEL ARCEGA (2013), Assistant Professor of Art; B.F.A. (1999), San Francisco Art Institute; M.F.A. (2009), Stanford University.
FEDERICO ARDILA (2005), Professor of Mathematics; B.S. (1998), Ph.D. (2003), Massachusetts Institute of Technology.

JOAN ARHELGER (1999), Professor of Theatre Arts; B.A. (1967), Carroll College; graduate studies, University of Wisconsin, Madison.


FRED ASTREN (1996), Professor of Jewish Studies; B.E.S. (1979), University of Minnesota; M.A. (1989), Ph.D. (1993), University of California, Berkeley.

TANYA AUGSBURG (2007), Associate Professor of Liberal Studies; B.A. (1987), New York University; M.A. (1993), Emory University; Ph.D. (1996), Emory University.


BRUCE AVERY (1994), Professor of English; B.A. (1984), San Francisco State University; M.A. (1987), University of Connecticut; Ph.D. (1992), University of California, Santa Cruz.

GUADALUPE AVILA (1993), Associate Clinical Director, Counseling and Psychological Services; B.S. (1973), M.S.W. (1975), California State University, Fresno; Licensed Clinical Social Worker (1985).

SHELDON AXLER (1997), Professor of Mathematics; B.A. (1971), Princeton University; Ph.D. (1975), University of California, Berkeley.

ANITA AXT (1979), Lecturer in French; B.A. (1960), University of California, Berkeley; Certificat de Hautes Etudes En Lettres et Civilisation françaises (1960), Université d’Aix-Marseille; M.A.T. (1976), College of Notre-Dame; M.A. (1984), San Francisco State University.

MOJTABA AZADI (2015), Assistant Professor of Mechanical Engineering; B.S. (1998), University of Tehran; M.S. (2000), Sharif University of Technology; Ph.D. (2010), University of Alberta.

MOHAMMAD AZADPUR (2003), Professor of Philosophy; B.A. (1986), Bucknell University; M.A. (1993), University of Pittsburgh; Ph.D. (1999), University of Virginia.

CRISTINA A. AZOCAR (2007), Associate Professor of Journalism; B.A. (1993), San Francisco State University; M.A. (1996), San Francisco State University; Ph.D. (2001), University of Michigan.

KATY S. AZOURY (1988), Professor of Decision Sciences; B.S. (1967), American University of Beirut; M.S. (1969), Syracuse University; Ph.D. (1979), University of California, Los Angeles.

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DEBRA FISCHER (2003), Adjunct Professor of Astronomy; B.S. (1975), University of Iowa; M.S. (1992), San Francisco State University; Ph.D. (1998), University of California, Santa Cruz.

BRIAN FISHER (2001), Adjunct Professor of Biology; B.A. (1988), University of Iowa; M.S. (1992), University of Utah; Ph.D. (1996), University of California, Davis.


TERRY GOSLINER (2001), Adjunct Professor of Biology; B.A. (1972), University of California, Berkeley; M.S. (1973), University of Hawaii; Ph.D. (1978), University of New Hampshire.

ZAKARIAS GRAFILO (2002), Adjunct Professor of Music; B.A. (2000), San Francisco State University; Member, Alexander String Quartet.

ELIZABETH GRAY (2002), Adjunct Professor of Biology; B.A. (1987), Harvard University; Ph.D. (1994), University of Washington.

JOHN GREENLEAF (2000), Adjunct Professor of Biology; B.S. (1955), University of Illinois; M.A. (1956), New Mexico Highland University; M.S. (1962), Ph.D. (1963), University of Illinois.

CHARLES GRISWOLD (1998), Adjunct Professor of Biology; B.S. (1972), M.S. (1977), Ph.D. (1983), University of California, Berkeley.

DAVID GUTNIK (2004), Adjunct Professor of Biology; B.S. (1961), M.S. (1963), University of California, Davis; Ph.D. (1967), University of Southern California; postdoctoral training (1967-69), NIH.


JOHN HODGES (2000), Adjunct Professor of Computer Science; B.S. (1976), M.S. (1978), University of Michigan; Ph.D. (1993), University of California, Los Angeles.

NINA JABLONSKI (1998), Adjunct Professor of Biology; B.A. (1975), Bryn Mawr College; Ph.C. (1978), Ph.D. (1981), University of Washington.

DAVID JULIAN (2004), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology; B.S. (1988), M.A. (1991), San Francisco State University; Ph.D. (1997), University of California, San Francisco.

DAVID H. KAVANAUGH (1998), Adjunct Professor of Biology; B.A. (1967), San Jose State University; M.A. (1970), University of Colorado; Ph.D. (1978), University of Alberta (Canada).

WILLIAM J. KIMMERER (1991), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology; B.S. (1967), Purdue University; Ph.D. (1980), University of Hawaii.

PATRICK KOCIOLEK (2001), Adjunct Professor of Biology; B.S. (1980), St. Mary's College of Maryland; M.S. (1982), Bowling Green State University; Ph.D. (1988), University of Michigan.

STEVEN LEE (2000), Adjunct Professor of Biology; B.S. (1981), State University of New York, Binghamton; M.S. (1984), New York University; Ph.D. (1990), University of California, Berkeley.

WILLIAM LENARZ (2000), Adjunct Professor of Biology; B.S. (1963), Humboldt State University; M.S. (1965), Ph.D. (1969), University of Washington.

ALAN LEVITON (2001), Adjunct Professor of Biology; B.A. (1949), M.A. (1953), Ph.D. (1960), Stanford University.

FRED LIFSITZ (1989), Adjunct Professor of Music; advanced study, Indiana University and the Tanglewood School of Music; member, Alexander String Quartet.

DOUGLAS LONG (2001), Adjunct Professor of Biology; B.S. (1988), University of California, Riverside; M.A. (1990), Ph.D. (1994), University of California, Berkeley.

JEROLD LOWENSTEIN (2004), Adjunct Professor of Biology; B.S. (1948), Columbia University; M.D. (1953), Columbia College of Physicians and Surgeons.
GEOFFREY W. MARCY (1994), Adjunct Professor of Physics and Astronomy; B.A. (1976), University of California, Los Angeles; Ph.D. (1982), University of California, Santa Cruz.

CHRIS McCARTHY (2005), Adjunct Assistant Professor of Astronomy; B.A. (1990), University of California, Berkeley; M.S. (1995), San Francisco State University; M.S. (1997), Ph.D. (2001), University of California, Berkeley.

JOHN E. MCCOSKER (1986), Adjunct Professor of Biology; B.A. (1967), Occidental College; Ph.D. (1973), Scripps Institution of Oceanography, University of California, San Diego.

MICHAEL McGOWAN (2000), Adjunct Professor of Biology; B.A. (1977), M.A. (1984), San Francisco State University; Ph.D. (1985), University of Miami.


LEORA NANUS (2009), Assistant Adjunct Professor of Geology; B.S. University of California, Santa Cruz; M.S. Western Washington University; Ph.D. University of Colorado, Boulder.

JAN NULL (1991), Adjunct Professor of Meteorology; B.S. (1974), University of California, Davis.

NADAV NUR (2004), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology.

STEVEN OBRESKI (2000), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology; B.S. (1960), Columbia University; Ph.D. (1968), University of Chicago.

CRISTIAN ORREGO (1993), Adjunct Professor of Biology; B.S. (1965), Indiana University; Ph.D. (1971), Brandeis University.

GORDON PARRY (2000), Adjunct Professor of Biology; B.S. (1972), Ph.D. (1975), University College London, University of London

STEPHEN RALSTON (2004), Adjunct Professor of Biology; B.A. (1971), University of California, Los Angeles; M.S. (1975), University of Hawaii, Honolulu; Ph.D. (1981), University of Washington, Seattle.

BALA RAVIKUMAR (2001), Adjunct Professor of Biology; B.E., M.S. (1983), Indian Institute of Science (India); Ph.D. (1987), University of Michigan.

MARK REYNOLDS (2001), Adjunct Professor of Biology; B.A. (1980), University of Iowa; M.S. (1982), Idaho University; Ph.D. (1990), University of California, Berkeley.

DALE ROBINSON (2000), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology; B.S. (1978), M.S. (1983), Portland State University; Ph.D. (1991), University of Southern California.

GRETCHE W. ROLLWAGN-BOLLENS (2004), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology; B.A. (1965), Harvard University; M.S. (1996), University of Hawaii; Ph.D. (2003), University of California, Berkeley.

PETER ROOPNARINE (2001), Adjunct Professor of Biology; B.S. (1984), Mount Allison University; M.S. (1988), Nova Southeastern University Oceanographic Center; Ph.D. (1993), University of California, Davis.

WILL RUSSELL (2004), Adjunct Professor of Biology; B.A. (1986), University of California, Santa Cruz; M.S. (1994), San Jose State University; Ph.D. (1999), University of California, Berkeley.

DAVID SIME (2004), Adjunct Professor of Biology.

KIM STEINER (2001), Adjunct Professor of Biology; B.A. (1975), Indiana University; M.S. (1977), Ph.D. (1982), University of California, Davis.

ROBERT STRONG (1993), Lecturer in Marketing; B.S. (1986), M.B.A. (1990), San Francisco State University.

CAROL TANG (2001), Adjunct Professor of Biology; B.A. (1989), University of California, Berkeley; M.S. (1993), Ph.D. (1996), University of Southern California, Los Angeles.

LAURA WAYTH (2013), Assistant Professor of Theatre Arts; B.A. (1993), The State University of New York, Binghamton; M.F.A. (2003), American Repertory Theatre / Moscow Art Theatre School Institute for Advanced Theatre Training at Harvard University.


FRANCES WILKERS (2000), Research Scientist, Romberg Tiburon Center, and Adjunct Professor of Biology; B.A. (1977), M.A. (1980), University of Cambridge; Ph.D. (1980), University of Bristol.

GARY WILLIAMS (2001), Adjunct Professor of Biology; B.A. (1972), University of California, Berkeley; M.A. (1975), San Francisco State University; Ph.D. (1987), University of Cape Town (South Africa).


PAUL YARBROUGH (1989), Adjunct Professor of Music; B.A. (1974), Davidson College, Artists Diploma (1978), Hartt School of Music; member, Alexander String Quartet.

MARIA DEL ROSARIO ZAVA (2012), Assistant Professor of Elementary Education; B.A. (2002), University of California, Santa Cruz; Ph.D. (2012), University of Washington, Seattle.

DE HUA ZHENG, Adjunct Professor of Asian American Studies; B.A. (1968), M.A. (1981), Zhongshan University, China; Ph.D. (1990), University of Hong Kong.

Emeritus Emerita Faculty

Emeritus Emerita Faculty


KENNETH BRINEY, Ph.D., Health Education. Appointed 1968. Emeritus since 1990.


GUNNAR SAUSJORD, Ph.D., Elementary Education. Appointed 1953. Emerita since 1983.


COURSE DESCRIPTIONS

Course Descriptions, Symbols, and Terms

Explanation of Course Notations
Certain notations are uniformly used in the course descriptions in this Bulletin.

- Courses are not repeatable for credit unless a statement, "May be repeated for credit," appears in the course description.
- The figure in parentheses following the course title indicates the number of semester units for the course. Some courses may be offered for varying units and are indicated by specifying the range of units; e.g., (1–3).
- All course prerequisites are listed in italics at the beginning of the course description.
- The statement "Topic to be specified in Class Schedule" at the beginning of the course description indicates that a more specific topic has been developed for offering. The specific topic(s) will be listed in the Class Schedule.
- Some courses are offered jointly by one or more departments; e.g., 1 R 321 is also offered as PL 321. This notation appears at the end of the course description. "May not be repeated under alternate prefix."
- Course attributes are listed below the course descriptions signify General Education courses [GE], U.S. History and Government requirement courses [USH, USG], California State and Local Government courses [CSLG], and Graduation Writing Assessment Requirement courses [GWAR].

Course Descriptions
Course descriptions briefly describe the content or subject matter to be covered and provide additional information on units of credit, the level of instruction (see course numbering system) and prerequisites.

Students may not earn credit in a cross-listed course a second time under an alternate prefix.

Information on specific offerings (times, rooms, instructors) will be found in the Class Schedule which is available on the SF State Web site in advance of fall, spring and summer semesters. Experimental and variable topic courses which are offered each semester can be found in the Class Schedule.

Course Numbering System
Because of the differences in the organization and content of the various disciplines and professions, there is no uniform way of numbering courses that would be equally useful in all fields of knowledge.

In general, it may be assumed that advances in division level (lower, upper, graduate) correlate with more difficult and challenging academic work. Upper division courses typically include a statement that indicates the prerequisite course work. Sometimes, however, disciplines organize their course numbering partly in terms of criteria other than the degree of difficulty. It should be noted, too, that some students find introductory courses to be more demanding than advanced, specialized courses. In such courses, a more comprehensive approach and the first exposure to new ways of thinking may be harder for some individuals than covering a smaller, more familiar, area in much greater detail. Also, please note that the 9000–9999 series is designated for professional level courses which award Continuing Education Units (CEUs). CEUs are nationally recognized units of measurement for participation in education and training programs for which academic credit is not awarded. The following course numbering system is used at this university:

<table>
<thead>
<tr>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–99</td>
<td>Remedial instruction and non-credit courses (units and grades earned will not count towards graduation requirements)</td>
</tr>
<tr>
<td>100–299</td>
<td>Lower division</td>
</tr>
<tr>
<td>300–699</td>
<td>Upper division</td>
</tr>
<tr>
<td>700–899</td>
<td>Graduate courses</td>
</tr>
<tr>
<td>900–999</td>
<td>Doctoral courses</td>
</tr>
<tr>
<td>9000–9999</td>
<td>Professional level courses offered for Continuing Education Units (CEUs); may neither be applied to nor substituted for graduation requirements.</td>
</tr>
</tbody>
</table>

Paired Courses
It is the policy of the university to permit individual departments or program areas to develop advanced undergraduate and graduate level courses with virtually identical subject matter and to offer them in a paired arrangement with a single instructor and a common meeting schedule. The mechanism of pairing graduate and advanced undergraduate courses is a means of facilitating programs or circumstances where limited resources otherwise would require that the quality of one program be sacrificed to maintain the quality of the other.

Special Course Numbers
For uniformity, certain types of courses have been listed by all departments and colleges with the same numbers:

- 699 and 899 are used for undergraduate and graduate independent study
- 893 for written creative works
- 894 for creative work projects
- 895 for field study or research projects
- 896 for directed reading
- 897 for graduate research
- 898 for master’s thesis

Experimental and Temporary Courses
All departments are authorized to offer experimental or temporary courses. These are not specifically described in the Bulletin. Descriptions may be obtained from the online Bulletin when such courses appear in the Class Schedule. The numbers 274, 277, 674, 677, and 874 are used by all departments to designate lower division, upper division, and graduate levels, respectively. The standard Bulletin description for these courses is:

274/277 Exploration in (name of discipline): (subtitle specifying content) (1–6)
A course involving exploration of a major problem or theme or an experimental method of instruction, with variable content as specified in the course subtitle in the Class Schedule. May be repeated for credit when different content is involved.

Remedial Instruction and Non-Credit Courses
Courses numbered 0–99 are remedial courses. Units and grades earned will not count towards meeting graduation requirements.
International Study Courses
San Francisco State University provides the opportunity for students enrolled in the California State University International Programs to receive credit for special study or for subjects taken at universities abroad. For details of the program, consult the International Programs page. The numbers 292, 492, and 792 are used to designate lower division, upper division, and graduate levels, respectively.

292 Projects in Study Abroad (subject to be designated by Overseas Resident Director, International Programs) (1–3)
Prerequisite: consent of major advisor. Open only to students in California State University International Programs. May be repeated for credit when different subjects are involved.

Independent Study
Under independent study courses, upper division and graduate students can pursue topics or problems of special interest beyond the scope of a regular course under the supervision of a faculty advisor. The work is of a research or creative nature, and normally culminates in a paper, project, comprehensive examination, or performance. Before registering, the student must have the topic approved by the instructor who will be supervising the independent study, as well as by the advisor and the department chair. (Forms are available in department offices and online at sfu.edu/~admisrec/reg/reg.html (http://www.sfu.edu/~admisrec/reg/reg.html).) The course numbers for independent study are 699 and 899. In most cases, independent study courses may be repeated for credit. Check the description for limitations.

Methods of Instruction
The forms and methods of teaching vary widely in specific classes. The more traditional methods of lecturing, discussion, laboratory work, and individually supervised research or projects are being supplemented by such learning resources as group and individual exercises, television, films and records, videotaping, and the use of the computer. Modern specialized facilities and equipment are used in many courses in different fields. These include: laboratories for teaching the sciences, a planetarium, studios for teaching the fine arts; a variety of facilities for teaching communications; a language laboratory for teaching foreign languages and linguistics courses; a speech and hearing clinic; the Tiburon Center for Environmental Studies; the Moss Landing Marine Laboratories; the Sierra Nevada Field Campus.

San Francisco State University encourages experimentation and innovation in teaching and welcomes a diversity of approaches. Increasingly and with growing help from students, efforts are being made on the campus to examine, evaluate, and improve the learning experiences.
Accounting (ACCT)

ACCT 100 Introduction to Financial Accounting (Units: 3)
Prerequisite: Passing ELM test.
Objectives, basic theory, principles, and methods of financial accounting. Reports as a framework for decision-making. Measuring and reporting financial position regarding income, costs, and revenue.

ACCT 101 Introduction to Managerial Accounting (Units: 3)
Prerequisite: ACCT 100 or equivalent with a grade of C- or better.
Use of accounting information to plan and control an organization’s financial activities. Processes used to plan and control costs and expenditures. Quantitative techniques used to evaluate alternative choices.

ACCT 199 Principles Equivalency Transfer (PET) (Unit: 1)
Prerequisite: Consent of instructor.
Special study project to allow full transfer credit of partially equivalent course(s) from another university/college for ACCT 100 and ACCT 101. (CR/NC grading only)

ACCT 300 Accounting and Finance Reporting (Units: 3)
Prerequisite: Passing ELM test.

ACCT 301 Intermediate Financial Accounting I (Units: 3)
Prerequisites: Restricted to Accounting majors and minors; ACCT 100 with a grade of C or better.
A comprehensive treatment of the theory and practice of accounting for assets, income, and the construction of financial statements. Additional topics include current liabilities and accounting changes. (Plus-minus letter grade only)

ACCT 302 Intermediate Financial Accounting II (Units: 3)
Prerequisites: Restricted to Accounting majors; ACCT 301 with a grade of C or better.
A comprehensive treatment of the theory and practice of accounting for investments, long-term liabilities, owners’ equity, leases, post-retirement benefits, income taxes, earnings per share, and the cash flow statement. (Plus-minus letter grade only)

ACCT 305 Cost Accounting (Units: 3)
Prerequisites: Restricted to Accounting majors; ACCT 101, ACCT 301, with grades of C or better.
Cost volume profit analysis, cost accumulation techniques, decentralization, transfer pricing, capital budgeting, cost allocation, budgeting, statistical cost estimation. Managerial uses of information for planning, control, and performance evaluation. (Plus-minus letter grade only)

ACCT 307 Accounting Information Systems (Units: 3)
Prerequisite: ACCT 301 with a grade of C- or better.
Development and use of accounting information systems for managerial control, and external reporting.

ACCT 317 Accounting Internship (Units: 1-3)
Prerequisites: ACCT 301; average GPA of 3.0 in upper division Accounting courses; and consent of instructor.
Work experience, related to the student’s academic program, with an accounting firm, private industry, government agency, or not-for-profit organization. (CR/NC grading only)

ACCT 501 Advanced Accounting (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 302 with a grade of C- or better.
Selected accounting problems. Business combinations and consolidated financial statements. Multi-national operations, segmental reporting, interim reporting, and partnerships.

ACCT 504 Government and Non-Profit Accounting (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 301 with a grade of C or better.
Financial reporting policies, procedures, and responsibilities of state and local government units, hospitals, trust entities, schools, voluntary health organizations, and other non-profit organizations. (Plus-minus letter grade only)

ACCT 506 Auditing (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 302, ACCT 307, DS 212 with grades of C- or better.
Principles and practice of auditing especially as it relates to the examination of financial statements by certified public accountants. Brief consideration of operational auditing. (Plus-minus letter grade only)

ACCT 507 Information Systems Auditing (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 302.
The accounting system environment with respect to computer implementation of procedures. Audit techniques and specific audit methodology to handle computerized audits.

ACCT 508 Federal Tax Accounting I (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 301 with a grade of C or better.
Federal income tax law as applied to individuals, corporations, and partnerships. Tax research and responsibilities in a tax practice.

ACCT 509 Federal Tax Accounting II (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 508.
Federal income tax focused on advanced topics applicable to individuals, corporations, and partnerships. Estate and gift taxation and income taxation of estates and trusts.

ACCT 513 International Accounting (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 301 with a grade C or better.
Covers the international aspects of accounting, financial reporting, and operations of multinational enterprises (MNE). (Plus-minus letter grade only)

ACCT 518 Accounting Fraud Examination (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 302 or equivalent.
Nature of fraud. Interactive case sessions on how fraud is committed and how to investigate fraud. (Plus-minus letter grade only)
ACCT 551 Principles of Internal Auditing (Units: 3)
Prerequisites: Restricted to upper division Accounting majors; ACCT 301 with a grade of C or better, ACCT 307 with a grade of C- or better.

Overview of the internal audit process; control of internal systems, audit evidence, and reporting the internal audit. (Plus-minus letter grade only)

ACCT 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive problem analysis under the direction of an accounting faculty member. May be used to make up partial equivalencies for transfer students. (CR/NC grading only)

ACCT 800 Financial Accounting I (Units: 3)
Prerequisites: Restricted to graduate business students; BUS 780 with a grade of B- or better; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.


ACCT 801 Financial Accounting II (Units: 3)
Prerequisites: Restricted to graduate business student; BUS 780 with a grade of B- or better; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Accounting for investments, liabilities, stockholders' equity, pensions, leases, income taxes, earnings per share and cash flow. (Plus-minus letter grade only)

ACCT 802 Strategic Management Accounting (Units: 3)
Prerequisites: Restricted to graduate business students; BUS 780 with a grade of B- or better; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Use of cost data in management decision making as it relates to planning, cost control, and performance evaluation. Relevant management tools as they relate to cost management. Role of qualitative factors relevant to the managerial decision-making process. (Plus-minus letter grade only)

ACCT 803 Auditing Principles and Practice (Units: 3)
Prerequisites: Restricted to graduate business students; ACCT 800; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Application of auditing principles while examining financial statements. Review of internal control systems, sampling techniques, and report writing. Operational auditing, professional ethics, and auditors' liability. (Plus-minus letter grade only)

ACCT 804 Legal and Professional Responsibilities in Accounting (Units: 3)
Prerequisites: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Legal rules and principles that apply to business transactions, including contracts, property, the debtor-creditor relationship, the formation of business organizations, the Uniform Commercial Code, and the regulation of business conduct. Professional responsibilities of CPAs, government regulation of securities markets, and corporate financial reporting. (Plus-minus letter grade only)

ACCT 807 Seminar in Accounting Information Systems (Units: 3)
Prerequisites: Restricted to graduate business students; BUS 780 with a grade of B- or better; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

The development of accounting information systems and their uses for management decision-making and external reporting. Auditing and control of accounting information systems. (Plus-minus letter grade only)

ACCT 808 International Accounting (Units: 3)
Prerequisites: Restricted to graduate business students; ACCT 800 with a grade of B- or better; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

A survey of problems relating to accounting for multinational corporations doing business in a global environment and attempts to solve them. (Plus-minus letter grade only)

ACCT 811 Introduction to Federal Tax (Units: 3)
Prerequisites: Restricted to graduate business students; BUS 780 with a grade of B- or better (may be taken concurrently); graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

An in-depth introduction to federal tax problems: income, deductions, credits, exemptions, and property transactions. (Plus-minus letter grade only)

ACCT 812 Advanced Federal Taxation (Units: 3)
Prerequisites: Restricted to graduate business students; ACCT 811 or consent of instructor; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Focus on advanced topics applicable to individuals, partnerships, corporations, estates, and trusts. Extensive coverage of the tax consequences of property transactions and alternative minimum tax. Corporate tax topics include formation, operation, non-liquidating distributions, liquidating. Federal estate and gift taxation, and income taxation of trusts and estates are also covered. (Plus-minus letter grade only)

ACCT 818 Accounting Ethics (Units: 3)
Prerequisites: ACCT 800; restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Advanced topics in accounting ethics including the application of professional ethics and responsibilities in the accounting and business environment and an analysis of the underlying ethical reasoning. (Plus-minus letter grade only)

ACCT 822 Taxation of Property Transactions (Units: 3)
Prerequisites: Restricted to graduate business students; ACCT 811; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Examination of the income tax treatment gains and losses resulting from the disposition of various types of property by different taxpayers. (Plus-minus letter grade only)
ACCT 826 Taxation of Partnerships and Partners (Units: 3)
Prerequisites: Restricted to graduate business students; ACCT 811; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Overview of provisions of subchapter k; partnership tax; determination of tax consequences incident to the formation of a partnership; understanding the taxation of operations of a partnership; determination of partners and partnerships tax basis considerations; examination of tax consequences of property distributions to partners. (Plus-minus letter grade only)

ACCT 831 Financial Statement Analysis (Units: 3)
Prerequisites: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs, BUS 780.

Financial statement analysis and recent developments in financial accounting, ethics, and regulation. Relevant to CPAs, CMAs, and financial managers. (Plus-minus letter grade only)

ACCT 833 Current Issues in Auditing (Units: 3)
Prerequisites: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs, ACCT 803

Examination of institutional features of auditing, including the history of auditing, audit theory and the application of audit techniques during financial statement audits. (Plus-minus letter grade only)

ACCT 835 Corporate Governance and the Design and Testing of Internal Controls (Units: 3)
Prerequisites: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs, ACCT 800.

Examination of corporate governance structures as well as the design and testing of internal controls related to financial reporting. (Plus-minus letter grade only)

ACCT 848 Seminar in Cost Accounting (Units: 3)
Prerequisites: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs, BUS 780.

Examination of organizational control and strategic performance evaluation, measurement issues and current topics associated with cost accounting. (Plus-minus letter grade only)

ACCT 851 Advanced Financial Reporting (Units: 3)
Prerequisites: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs, ACCT 801 (may be taken concurrently).

Examination of the complexities of recording and reporting for business combinations, multi-national operations, partnerships, and foreign currency transactions, and in-depth study of the consolidated financial statements. (Plus-minus letter grade only)

ACCT 890 Ethics and Contemporary Accounting Issues (Units: 3)
Prerequisites: ACCT 800, two additional 800 level ACCT courses, enrollment priority for Master of Science in Accounting majors, consent of instructor, approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Supervised independent and group research into contemporary topics and issues in accounting including international accounting standards and ethics, culminating in oral and written presentations. (Plus-minus letter grade only)

ACCT 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, advisor, and department chair.

Intensive study of a particular problem under the direction of an accounting faculty member. Open only to graduate students of demonstrated ability to do independent work. May be repeated for a total of 6 units. (Plus-minus letter grade only)
Africana Studies (AFRS)

AFRS 100 General Studies Colloquium (Units: 3)
Developing the individual's awareness of race and ethnicity as it impacts educational achievement and attainment from preschool to the university level. Social, economic, and political relationship between schools and community. Survey of theories, characteristics, methodologies, and application of innovative research methodologies to the African American educational experience and connection to other cultural communities.

AFRS 101 Introduction to Africana Studies (Units: 3)
Development of Africana Studies as an academic discipline. Topics include history, literature, psychology, politics, and others.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 110 Critical Thinking and the Black Experience (Units: 3)
Developing the basic skills involved in understanding, criticizing, and constructing arguments by using materials reflective of experiences of Blacks and the third world culture in the United States.

AFRS 111 Black Cultures and Personalities (Units: 3)
The cultural influence on the development of Black personality configurations.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 125 Black Community Involvement Workshop (Units: 3)
Exploration of community organizations through actual involvement in various community agencies. Social, economic, and political resources in the community. May be repeated once.

AFRS 200 Introduction to Black Psychology (Units: 3)
Theories, characteristic methodologies, and applicability to the African American behavioral experiences and interface with other cultural communities.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 201 Kemet, Afrocentricity, and the Dawn of Science (Units: 3)
Kemetic Science and the primacy of Kemet (Egypt) in the development of modern science. The structured whole, the Nubian Vortex, Cartesian vs. Alchemical cosmologies, and the Afrocentric thought and achievement of African American scientists and engineers.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 202 Black Men's Studies (Units: 3)
Exploration of diverse lives, experiences, and development of Black men and boys within the context of their families, communities, and society at large, and of the experience and development of Black manhood and masculinity from a cultural and historical lens within several societal dimensions.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 203 Black Social Sciences (Units: 3)
Methodological principles, key theoretical concepts of western social sciences, and applications in third world critical perspective. Work of Black social scientists that have added to understanding black experience. Relevance of western methods and theories to Black development.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 204 Black Creative Arts (Units: 3)
Culture of Black Americans through examination of the creativity of its women artists.

Course Attributes:
- C1: Arts
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 208 Introduction to African American History (Units: 3)
Examination of black history in the United States from Colonial times to the present. Critical review of major themes including enslavement, abolitionism, the Civil War, urbanization, freedom, and civil rights. The aftermath of each theme will be analyzed. (Plus-minus ABC/NC, CR/NC grading)

Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 210 Introduction to Africana Literature (Units: 3)
Role of literature in the formulation, maintenance, and articulation of a cultural ethos.

Course Attributes:
- C3: Humanities: Literature
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 213 Science and Spirituality in Ancient Africa (Units: 3)
Science and mathematics, in an African religious-spiritual context, used to conduct business, build monuments, study star and planetary motion, and explain the origin and evolution of the universe. Basic systems of measurement and calculation from ancient and modern Africa.
AFRS 214 Second Year Written Composition: Africana Studies (Units: 3)
Prerequisite: ENG 114 or equivalent with a grade of CR or C- or better.

Development of expository and analytic writing skills through the study and appreciation of Black literature. Various authors and genres of Black literature from different historical and cultural periods. Literary criticism. Must be taken after student has completed 24 units and before completing 60 units. (Plus/minus ABC/NC, CR/NC allowed)

Course Attributes:
- A4: Written English Comm II
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 215 Introduction to Black Family Studies (Units: 3)
Theories and research about Black families in America. Emerging trends in Black families: ethnic stratification, family, and marital stability, socialization processes, and research issues.

Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 221 African American Music: A 20th Century Survey (Units: 3)
History, growth, and development of African American music during the 20th century.

Course Attributes:
- C1: Arts
- Am. Ethnic & Racial Minorities

AFRS 225 Images and Issues in Black Visual Media (Units: 3)
Historical and developmental survey of black media; overview of the cultural economic, social and political forces that influence and shape black media in America (which in turns affects black images and identities all over the world); analysis of aesthetics, social theories, research methods and activist strategies that are associated with blackness, race and representation in film and television and in alternative media outlets.

AFRS 230 African American Gospel Workshop (Units: 3)
Workshop on gospel music: traditional African antecedents of gospel music, religious, and secular forms developed, and economic and political factors shaping gospel music. Guest appearance by a known gospel artist. Culminates in a student performance.

Course Attributes:
- C1: Arts
- Am. Ethnic & Racial Minorities

AFRS 256 Hip Hop Workshop (Units: 3)
History, aesthetics, mechanics, and politics of Rap music and Hip Hop culture. African American aspects and African-centered qualities of the cultural movement known as Hip Hop.

Course Attributes:
- E1: Lifelong Learning Develop
- C1: Arts
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Global Perspectives
- Social Justice

AFRS 260 Power, Racism and Africana Liberation (Units: 3)
Behavioral and social sciences used to compare and analyze across time, space, and geographical region, responses to racism by world culture and civilization of people of African descent. [Formerly ETHS 260]

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 266 Black On-line: Cyberspace, Culture, and Community (Units: 3)
The impact of the information revolution and the digital divide on Black people worldwide. Understanding the need to blend cyber technology with the issues of Black culture and community. Fully on-line class; must have an e-mail address.

Course Attributes:
- E1: Lifelong Learning Develop
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 271 Elementary Kiswahili Language and Culture (Units: 3)
Introduction to speaking, listening and understanding, writing, and reading skills in Kiswahili and Swahili culture and worldview.

AFRS 290 Malcolm X in the Context of Black Nationalism (Units: 3)
Critical examination of Malcolm X—his political, spiritual, economic, and social philosophy and programs in the historical context of Black nationalism. Review of his legacy in contrast and comparison to other Black leaders such as Martin Luther King.

AFRS 300 From Africa to Olmec America: Ancient African Prehistory and History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Early African civilization and pre-colonial era: history of the ancient empires of Nubia, Ethiopia, Congo, Zimbabwe, Zulus, etc. History of colonialism; patterns of annexation; journey of Africans from Africa to the Caribbean, Latin and South America, and the U.S.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
AFRS 301 Africa in Global Perspective (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Physical, social, cultural, political, technological, economic, and business environment of Africa; policy determinants influencing economy; polity and business systems; interactions between modern development theory, world political economy, and domestic policy; strategies and constraints to reverse underdevelopment.

AFRS 302 Black Diaspora (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Dynamics of Black dispersal, 15th to 20th centuries; cross-currents and interactions within the Black world; constraints on the formation of Black solidarity movements; contemporary movements.

AFRS 303 African American History (Units: 3)
Prerequisites: AFRS 300, AFRS 301 or equivalent.
Recurrent themes and issues in Black history since the 19th century. Reconstruction and the emergence of mass movements and counter-ideologies.

AFRS 304 Black People and the American Experience (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
History of Black people and their American experiences from 1770 to 1954. Important constitutional, political, economic, and cultural issues as they developed nationally and locally.

AFRS 305 Ancient Egypt (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
History, religion, culture, economic system, and dynastic periods of the world’s greatest ancient civilization, Egypt or KMT, the Black country.

AFRS 310 Anthropology of Blackness (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of anthropological theory, research, and practice as it relates to constructions of blackness as well as African-diasporic identities. African-diasporic contributions to anthropology, anthropological research, and theory concerning Africana identities will be explored.

AFRS 312 Kalifia: The Black Heritage of California (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
African American presence in the Golden State; the Black heritage in the establishment, development, and evolution of California from the Gold Rush era to the present.

AFRS 320 Black Politics, Mass Movements, and Liberation Themes (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Theoretical constructs and basic premises that draw on political experiences of Black people. Review of political science theories as they have been applied to Blacks in the U.S.

AFRS 326 Black Religion (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 335 The Black Woman: A Cultural Analysis (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Black women in the Americas, the Caribbean, and on the African continent: their struggles for rights as Blacks and as women, their contribution to the development of their societies, their political aptitude, and their artistic adeptness.

Course Attributes:
- E1: Lifelong Learning Develop
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 340 Economics of the Black Community (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Economic problems of Black people. Role of Black labor in the American capitalist economy. Welfare schemes and Black reaction to population control.

AFRS 345 Blacks in Urban America (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Structural and cultural conditions such as poverty, economics, welfare and political arrangements that impact urban America; particular attention to ways in which Black communities examine how poverty and race influence social policy and effective strategies and solutions for change.

AFRS 350 Black-Indians in the Americas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examines factors impacting on multiracial identity formation among Native communities throughout the Americas with a specific focus on Black-Indians; explores concepts and theories regarding blood quantum, sovereignty, and land rights, and the social, legal, and political understanding of mixed-race Native Americans.
(This course is offered as AIS 350, AFRS 350, and LTNS 355. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
AFRS 370 Health, Medicine, and Nutrition in the Black Community (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Theoretical and practical implications of health and healing in the Black community today. Personal and community perspectives. Historical health disparities in Black community. Includes interactive class activities and presentations from people in the community working to address these issues.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Social Justice

AFRS 375 Law and the Black Community (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Contemporary and historical investigations of city, state, and federal laws and how they affect the human rights, self-determination, and survival of the Black community in America. Administration of justice by court, police, security, and legislative agencies.

Course Attributes:
- Calif State & Local Govt
- U.S. Govt CA State Local Govt
- U.S. History
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 376 Government, the Constitution, and Black Citizens (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Nature and source of constitutional power—federal and state. Interaction of the Supreme Court with the Congress and with the Presidency; constitutional issues involving poor and Black citizens. [CSL may be available]

Course Attributes:
- U.S. Govt CA State Local Govt
- U.S. History
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 382 African American Economic History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Factors which have constrained historically the economic status of African Americans in the labor market; industries and occupations; relationships to trade unions. How all these affect the income position of African American families.

AFRS 400 Black Arts and Humanities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Creative efforts of Black writers and artists. Values expressed in these works and their relation to African-American culture.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 401 Pan African Black Psychology: A North American, South American and Caribbean Comparison (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of how the "identity" and "Consciousness" of Afro-Brazilian, African-American, and Haitian people have been complicated and confused by enslavement, westernization, and the imposition of a White Supremacist ideology. Comparison of the similarities and differences between Afro-Brazil, Haitian, and USA African American retention.

Course Attributes:
- Am. Ethnic & Racial Minorities

AFRS 411 African and African American Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Literature of Blacks of two continents. Cultural phenomenon of the critical impact of American Black authors on African writing and perspective.

AFRS 450 African Philosophy and Cosmology (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Foundations of Black philosophy from ancient Africa to the present. Theories of knowledge and thought within the social and political context.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities

AFRS 466 Black Lives Matter: Race and Social Movements (Units: 4)
Prerequisite: ENG 214 or equivalent.

Subordinate status of African-Americans and others in the U.S.; nexus between power, racism, and violence. Strategies for social change in terms of leadership, organization, and movements. (This course is offered as PLSI 466 and AFRS 466 [formerly ETHS 466]. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AFRS 515 Black Family Studies (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Structure, history, and functioning of the Black family: African cultural traditions related to Black family life.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Social Justice
AFRS 516 Research Methods (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Application of research methods to Black populations and the Black community.
Course Attributes:
- UD-D: Social Sciences
- Social Justice

AFRS 525 Black Child Development (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Analysis of both the traditional theoretical approaches to the study of Black children and innovative approaches: areas of cognitive development, socialization, education, personality development, and the social context of childhood.

AFRS 551 Fieldwork in Africana Studies (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Supervised fieldwork in community organizations enabling students to apply knowledge gained in classes to the solution of problems and the development of the community. Classwork, 2 units; fieldwork, 1 unit.

AFRS 600 Proseminar in Africana Studies (Units: 3)
Prerequisite: AFRS 214 or equivalent or consent of instructor.

Educational, sociological, psychological, political, economic, historical, and cultural aspects of the Black experience particularly as these pertain to Africana Studies curricula and programs.

AFRS 645 Literature of the Harlem Renaissance (Units: 3)
Prerequisite: AFRS 516 Research Methods or consent of instructor.

Reading of Harlem Renaissance writers including Countee Cullen, Nella Larsen, Zora Neale Hurston, and Langston Hughes. Hone reading and analytical writing skills through essays, class discussion, and structured group work.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AFRS 646 Frantz Fanon’s Psychology of Violence, Negation, and Liberation (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

A critical discussion of human oppression and liberation. A study of the writings of Frantz Fanon and their use to understand various paradigms of oppression, the psychology of liberation, objectification, and negation, and the psychological value of African-centered thought.

AFRS 665 Black Journalism (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

History, social role, function, and organization of print and broadcast journalism in relation to Black Americans. Writing, planning, and publication of papers and magazines. May be repeated for a total of 6 units.
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

AFRS 678 Urban Issues of Black Children and Youth (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of Black children and youth by understanding Black culture and history, behavior patterns, language, attitude, and family backgrounds; the role of education in African American traditions, stressing strategies for attaining excellence in an equitable environment.

AFRS 685 Projects in the Teaching of Africana Studies (Units: 1-4)
Prerequisite: Upper division standing and consent of instructor.

Academic service learning practicum/internship experience as an undergraduate instructional aide. Participation in the teaching of a regular instructionally-related class. Limited to undergraduate students only. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

AFRS 694 Community Service Learning (Units: 1-3)
Prerequisites: Upper division standing or consent of instructor; must be taken concurrently with an Africana Studies course supporting community service learning.

Community service learning activity course. May be repeated for a total of 6 units. [CSL may be available]

AFRS 699 Independent Study (Units: 1-3)
Prerequisites: Consent of major adviser, department chair, and instructor. Supervised, individual study of a particular problem in Africana Studies. The student must state the problem, the method of data gathering, and the method of data analysis. May be repeated for a total of 6 units.

AFRS 705 Seminar in Africana Studies (Units: 3)
Prerequisite: Consent of instructor.

Historical and intellectual foundation of the Africana Studies discipline: critical knowledge base, cultural grounding, intellectual orientation. Major philosophical, cultural, political, economic, and social developments and traditions found in African and African American society.
All University (A U)

A U 101 First Year Experience (Units: 3)
Goals of higher education; mission and structure of the university; communication and information competency; academic skill development; personal and interpersonal skills related to academic success. (CR/NC grading only) [CSL may be available]

A U 200 Pathways Seminar for Pre-Health Majors (Units: 1-3)
Intended for students in Causeways initiative. Exploration of health-related fields to enhance options for majors leading to newly discovered career paths and formation of leadership, academic, and metacognitive skills for near-term and life-long advancement and learning. (Plus-minus ABC/NC, CR/NC)

A U 280 Community Service Learning Option (Units: 1-3)
Must be concurrently enrolled in a university course offering a community service learning (CSL) opportunity. Students perform community service and reflect on their experience as required by the concurrent course. May be repeated for a total of 6 units. [CSL may be available]

A U 301 Bay Area Environments (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to the complex nature of human and environment interaction in the SF Bay Area. Exploration of environmental issues, geologic processes, water, weather, climate and ecosystems, anthropogenic changes across the region, and the future of the Bay Area. (This course is taught in a hybrid modality [online and in-person]). (This course is offered as A U 301 and GEOG 301. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-B: Physical Life Science
• Partial Online Course
• Environmental Sustainability

A U 302 Bay Area Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Ever since the Gold Rush, authors, journalists, artists, architects, and musicians have shaped the way people here and abroad understand Bay Area culture. Students study the region's vast projection of itself, paying special attention to transformational periods, movements, events, and figures.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Environmental Sustainability
• Global Perspectives

A U 303 Bay Area History and Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of the Bay Area, specifically San Francisco, Oakland, Berkeley, and San Jose, from a sociohistorical and global perspective. Exploration of various dimensions of the bay area's human and environmental composition and history, paying special attention to the built environment, immigration, globalization, race, and class. (This course is offered as A U 303 and HIST 451. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

A U 425 Advanced Peer Advising (Unit: 0)
Prerequisites: COUN 325, Peer Counselor Training, or consent of instructor.
Advanced leadership, communication and peer advising skills, as well as university rules, regulations, and services. Students take a meaningful role in the undergraduate orientation and/or peer advising program. (CR/NC grading only)

A U 600 Willie Brown Internship Seminar (Units: 3)
Prerequisite: Willie Brown Internship
Overview of public sector issues at the local level; focus on professional development and career pathways. Guest speakers will discuss topics related to the public sector. (Plus-minus letter grade only)

A U 694 Integrating Interdisciplinary Perspectives on Study Abroad (Unit: 1)
Prerequisites: ENG 214 or equivalent, acceptance into a study abroad program.
Culminating experience for students fulfilling GE Segment III through Study Abroad: Exploring Cultural Diversity. Student works with a faculty advisor to complete a paper of 10 or more pages that integrates disciplinary perspectives gained from study abroad with the student's own experiences living in a different culture.

A U 697 Tutoring Across Disciplines: Skills and Practices (Units: 3)
Prerequisite: Upper division standing and consent of instructor.
Current topics, principles, philosophy, and practice of tutoring across disciplines in a university academic tutoring setting. Interactive instruction and experience in techniques, strategies, and communication for effective tutoring and learning. (ABC/NC grading; CR/NC allowed)

A U 793 Cooperative Education Program (Units: 1-3)
Prerequisite: Graduate adviser or faculty approval. Intended for all academic majors.
Supervised employment in academically relevant fields of study. Objectives are career development, occupational experience, and educational subsidy. (CR/NC grading only)

A U 796 Tutoring Across Disciplines: Skills and Practices (Units: 3)
Prerequisite: Graduate standing and consent of instructor.
Current topics, principles, philosophy, and practice of tutoring across disciplines in a university academic tutoring setting. Interactive instruction and experience in techniques, strategies, and communication for effective tutoring and learning. (ABC/NC grading; CR/NC allowed)
American Indian Studies (AIS)

AIS 100 Introduction to American Indian Studies (Units: 3)
Introduction to American Indian Studies: the histories, cultures, identities, and contemporary issues of the indigenous American Indian, Alaskan Native, and Native Hawaiian groups. Topics range from colonialism, racialization, social formation, identity politics, and environmental issues to law and politics.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 103 Introduction to Pacific Studies (Units: 3)
Examination of historic and contemporary issues related to Pacific Islander communities in the United States across the Pacific Islander diaspora. (This course is offered as RRS 103 and AIS 103. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AIS 150 American Indian History in the United States (Units: 3)
The major indigenous cultures residing in the present U.S.; regional groups, structures, world views; major events that took place between the first Americans and new Americans from contact up to 1930.

Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 160 Survey of Native California (Units: 3)
Native California from origin to contemporary times. Comparative data, adaptive strategies, and relations between the indigenous populations and European and Anglo-American contact.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Social Justice

AIS 162 American Indian Oral Literature (Units: 3)
Traditional Indian literatures: legend, origin stories, pre-contact poetry, oratory, and stories of the people. Forms, styles, images, and themes used by selected tribes to express the experience of their daily lives.

AIS 205 American Indians and U.S. Laws (Units: 3)
The legal history that has developed between the earliest settlers and the existing peoples of the American continent. Legal and social concepts that the settling communities had toward Indian Nations. [CSL may be available]

Course Attributes:
- U.S. Govt CA State Local Govt
- D3: Social Sciences: US CA Gov
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 230 Urban Indians (Units: 3)
Comparative examination of American Indian experiences in urban areas, in distinction from reservation and rural life.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 235 American Indians: Image and Issues in the Mass Media (Units: 3)
Recurring images and treatment of American Indians, especially in film, television, advertising, popular literature, and commercial arts. Cultural, economic, social, and political forces that influence image and artistic expression.

Course Attributes:
- C1: Arts
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 300 American Indian Studies Research Methodologies (Units: 3)
Prerequisites: Upper division standing, AIS 100 (may be taken concurrently), ENG 214 or equivalent.

Overview of social scientific and literary theories/methods useful in the gathering and study of data on historical and contemporary American Indian nations, tribal groups, communities, individuals, and literature. (Plus-minus letter grade only)

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AIS 310 American Indian Religion and Philosophy (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Religious and philosophical aspects of the lifestyles of certain plains tribes in what is now called the U.S. Ancient religion, visions, and deity structures and how they have survived and have been modified by the impact of European cultures.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice
AIS 320 American Indian Music (Units: 3)
Prerequisite: AIS 100 or consent of instructor.

Relationships among music, cultural perspectives, and collective and individual selves of American Indians, Alaskan Natives, and Native Hawaiians.
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 325 American Indian Art (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Contemporary and comparative examination of American Indian art, including American Indian theories of art and connections of art with other forms of cultural expression such as novels, poetry, songs, dances, and oral histories.
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 330 American Indian Law (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to Native epistemologies, worldviews, social structures, and institutions relating to customary or "traditional" law, governance, justice, and ethics; overview of customary perspectives and practices; examination of contemporary revitalization efforts to restructure colonial paradigms of Native governance.
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 350 Black-Indians in the Americas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examines factors impacting on multiracial identity formation among Native communities throughout the Americas with a specific focus on Black-Indians; explores concepts and theories regarding blood quantum, sovereignty, and land rights, and the social, legal, and political understanding of mixed-race Native Americans. (This course is offered as AIS 350, AFRS 350, and LTNS 355. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities

AIS 360 Modern American Indian Authors (Units: 3)
Prerequisite: ENG 214 or equivalent (may be taken concurrently).

Literatures of the native peoples of North American; comparison of oral and written literature, indigenous, and Western knowledge systems through different forms and forms and functions of literacy; examination of literature, narrative, oratory, poetry, short stories, and contemporary novels recorded and written by Indians from the mid 1850's through contemporary times. Changing literary forms, methods of recordings, celebrating and reaffirming 19th- and 20th-century Indian life.
Course Attributes:
- Am. Ethnic & Racial Minorities

AIS 400 American Indian Education (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Content, curriculum, and structure of education in reservation and off-reservation schools. Problems, goals, innovative restructuring, proposals for future.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AIS 410 Perspectives of Native California Indians (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Cultural and historical perspective of California Indians. Contemporary problems, issues, and developments involving American Indians, both urban and rural.
Course Attributes:
- Am. Ethnic & Racial Minorities
- Environmental Sustainability

AIS 420 Native Genders and Feminism (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to Native genders and feminist theories, methods, and activism as developed within the United States and Canada with an overview of the field(s) with a focus on k and emergent scholarship and political issues. (This course is offered as AIS 420 and WGS 420. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice
AIS 440 Native Sexualities and Queer Discourse (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
A comparative, interdisciplinary, socio-historical analysis of Native sexualities and gender constructions from indigenous centered perspectives; examination of the complexity of Native sexualities, gender formations, and queer indigenous identity movements. (This course is offered as AIS 440, SXS 440, and WGS 440. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AIS 450 American Indian Science (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
American Indian sciences, theory and practice, traditional herboology, agricultural and environmental sciences, methods of food production, preservation, and preparation. Indian architectural modes and thermal clothing used by tribes from six regions of North America.

AIS 460 Power and Politics in American Indian History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Modern political and social issues arising from U.S. American Indian relations: land, water, civil, and tribal rights with underlying historical and attitudinal differences behind these problems. [CSL may be available]
Course Attributes:
- U.S. History
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 470 American Indian Ethnicity: Problems in Identity (Units: 3)
Prerequisites: Upper division standing, AIS 100, AIS 150, or consent of instructor.
Examination of ethnicity focusing on the history and theory surrounding American Indian tribal and Pan-Indian identity formations within the nation-state and reservation contexts.
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 490 Ancestors or Data? Culture, Conflict, and NAGPRA (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Political struggles surrounding the creation and implementation of the 1990 Native American Graves Protection and Repatriation Act (NAGPRA). Analysis of the law, impact of recent court decisions, and specific focus on cultural conflicts related to the concept of knowledge. (This course is offered as AIS 490, ANTH 490, and SOC 491. Students may not repeat the course under an alternate prefix.)

AIS 500 Language and Cultural Systems of North American Indians (Units: 3)
Prerequisite: AIS 100 or consent of instructor.
Relationship between American Indian language and culture, including topics and skills related to language learning and the historical conditions of cultural retention and revitalization efforts. (This course is offered as AIS 500 and ANTH 500. Students may not repeat the course under an alternate prefix.)

AIS 520 Before the Wilderness: American Indian Ecology (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examines the environmental thought, ecological worldviews, and resource management practices of North American native peoples; reviews how European and American colonists justified the expropriation of native lands, the different perceptions of “land” and its connections to major ecological and cultural change.

AIS 535 American Indian Film (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent.
Examines how Native peoples have used film as a means of reclaiming and representing their histories, cultures, and identities. (Plus-minus letter grade only)
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 550 American Indians in Contemporary U.S. History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Overview of the historical lived realities of major indigenous cultures and people residing within the present day boundaries of the United States from 1930 through 2000. (Plus-minus letter grade only)
Course Attributes:
- U.S. History
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 560 Modern Creative and Performing Arts (Units: 3)
Prerequisite: AIS 100 or consent of instructor.
Individual and group performance of creative and performing arts in American Indian communities. Fine art, oral poetry, dramatic modes, and media. Adaptation of traditional modes to modern situations.
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AIS 610 Native Americans and Museums (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
A historical overview of the relationship between American Indians and the museums that house and display their cultural patrimony—questions of historical and cultural representation, rights of tribal communities, exhibition images, and representations of American Indians in museums are explored.
AIS 680 American Indian Studies Senior Seminar (Units: 3)
Prerequisites: AIS 300, AIS 694.

Directed guidance leading to the completion of a senior research project based on intensive study of a topic or problem related to American Indian peoples. (Plus-minus letter grade only)

AIS 681 Genetics, Biotechnology, and the Politics of Difference (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Employs feminist science studies, critical race theory, and indigenous studies to analyze how the life sciences conceptualize, define, and study human differences. Considers how feminist insights into the social effects of genetics and biotechnology can influence scientific practice and discourse.
(This course is offered as WGS 681 and AIS 681. Students may not repeat the course under an alternate prefix.)

AIS 685 Projects in the Teaching of American Indian Studies (Units: 1-4)
Prerequisites: Upper division standing and consent of instructor.

Academic service learning practicum/internship experience as an undergraduate instructional aide. Participation in the teaching of a regular instructionally-related class. Limited to undergraduate students only. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

AIS 694 Community Service Learning (Units: 1-3)
Prerequisites: Consent of instructor; must be taken concurrently with any AIS course offering opportunity for community service learning.

Community service learning to be taken with any AIS course that supports community service learning. May be repeated for a total of 6 units. (CSL may be available)

AIS 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Supervised, individual study of a particular problem in American Indian studies. Student may select the supervisor and must state the problem, the method of data gathering, and the method of data analysis. May be repeated for a total of 6 units.

AIS 701 Seminar in American Indian Studies (Units: 3)
Prerequisite: Consent of instructor.

Issues in the study of American Indians: understanding of the Indian tribes and nations as sovereign political entities; political, economic, and social developments of self-determination and its implications for Indian tribes.
American Studies (AMST)

AMST 300 Perspectives on American Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
American culture from the perspectives of different social sciences.
American national character, social thought, and political order.

AMST 310 The Arts and American Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Figures in visual, literary, and performing arts who have reflected
American culture through mastery of their arts; relationships between
arts in periods of American cultural development.
(This course is offered as HUM 485 and AMST 310. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities

AMST 410 California Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Dynamics of California society and culture in recent times; world oasis,
flawed paradise, lifestyle crucible, and creative milieu; function in
American culture and Pacific relations.
(This course is offered as HUM 450 and AMST 410. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
Anthropology (ANTH)

ANTH 100 Introduction to Biological Anthropology (Units: 3)
Human beings in relation to the animal kingdom, geological time, and human evolution; fossil humans; human heredity; anthropometry; criteria of race; racial theories and problems.

Course Attributes:
- B2: Life Science

ANTH 110 Introduction to Archaeology (Units: 3)
Old and New World prehistory: discovery and invention, domestication of plants and animals, science, technology, and other aspects of culture.

Course Attributes:
- C2: Humanities
- Global Perspectives

ANTH 120 Introductory Social and Cultural Anthropology (Units: 3)

Course Attributes:
- D1: Social Sciences
- Social Justice

ANTH 130 Introduction to Visual Anthropology (Units: 3)
The role of film, photography, digital and multi-media in the examination of human diversity; the study of visual aspects of human behavior and the use of visual media in research and visual anthropology. (Plus-minus letter grade only)

ANTH 300 Foundations of Anthropology: History (Units: 3)
Prerequisites: ANTH 100, ANTH 110, ANTH 120.

Theoretical foundations of anthropology: major trends in anthropological thought and practice up to the present.

ANTH 301 Foundations of Archaeology (Units: 3)
Prerequisites: Upper division standing, ANTH 110, or consent of instructor.

Introduces and develops archaeological theory in its archaeological- anthropological paradigms with emphasis on the role of material culture. (Plus-minus letter grade only)

ANTH 302 Foundations of Human Variation (Units: 3)
Prerequisite: ANTH 100 or one course in college biology.

Examines the nature and extent of heritable differences among human populations in an evolutionary perspective. The role of genetics and environment in the formation of these differences is considered, as well as the social and biological concept of race.

Course Attributes:
- UD-B: Physical Life Science

ANTH 305GW Writing Anthropology - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better, ANTH 120.

Advanced development of writing skills in anthropology; descriptive, interpretive, critical analyses, popular media, and scholarly research. Regional or topical theme varies. (ABC/NR grading only)

Course Attributes:
- Graduation Writing Assessment

ANTH 315 Regional Ethnography (Units: 3)
Prerequisites: Upper division standing, ENG 214.

Apply a cultural area study approach to People and Cultures around the world; focus on the history and contemporary cultures of East Asia, Central America, and West Africa. Topic to be specified in Class Schedule. May be repeated when topics vary.

ANTH 316 Contemporary Culture of Greece (Units: 3)
Prerequisite: ENG 214 or equivalent.

The culture of contemporary Greece within the framework of the social sciences, particularly anthropology and folklore. (This course is offered as MGS 316 and ANTH 316. Students may not repeat the course under an alternate prefix.)

ANTH 319 Cultures of the Middle East and North Africa (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent.

An introduction to the variety of cultures and communities in the Middle East and North Africa. Differences in history, religion, social organization, language, politics, and power are highlighted in lectures, ethnographies, and film.

ANTH 320 Racism: Cross-Cultural Analysis (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Cultural history of racism as related to colonialism and imperialism. Racism as on-going intellectual, political movement. Anti-racism and educational-anthropological methods to defeat racism. (This course is offered as ANTH 320 and CST 320. Students may not repeat the course under an alternate prefix.)

ANTH 321 Endangered Cultures (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Interaction between non-industrial and industrial societies; cultural degradation and extermination of non-industrial societies beginning 150 years ago.

ANTH 325 Class: Cross-Cultural Analysis (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Exploration of the cultural production of class and status in a comparative perspective. Reading of theoretical texts as well as ethnographies, exploration of class markers, and the production of distinction in students’ own lives.

ANTH 326 Origins of Art and Visual Representation (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Investigation of the emergence and development of art and visual representation as a human social, political, cognitive, and aesthetic behavior. Geographic coverage is global; temporal coverage from early humans through (pre)history. (Plus-minus letter grade only)
ANTH 327 Anthropology and Film (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Social and cultural anthropology through films, ethnographies, and popular writings of anthropologists.
(This course is offered as ANTH 327 and CINE 327. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

ANTH 328 Anthropology and Photography (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of the documentary, social, political, and aesthetic roles of photography (and the archive and photo-essay) in anthropology as a mode of representation and control, but also of resistance.
(This course is offered as ANTH 328 and JOUR 328. Students may not repeat the course under an alternate prefix.)

ANTH 333 Primate Behavior (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Exploration of the social lives of all primates. Topics include social organization, cooperation/competition, reproduction, communication, and the interrelationship between behavior and ecology. Students will conduct behavioral observations of primates at the zoo.

ANTH 343 Women and Work (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Position and roles of women in the productive activities of society: paid and unpaid. Patterns of household and workplace employment, discrimination in pay and working conditions, relevant laws, explanations for the evolution of patterns.
(This course is offered as LABR 343 and ANTH 343. Students may not repeat the course under an alternate prefix.)

ANTH 356 Archaeology of California (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Prehistoric heritage of California’s Native American cultures studied in the comparative light of ethnohistoric and ethno graphic data. Archaeological focus on culture-history, economy, settlement pattern, ecology, political organization, and processual adaptation.

ANTH 415 Culture and Sex in East Asia (Units: 3)
Prerequisites: Upper division standing, ANTH 120, or consent of instructor.

Examines from the perspective of critical anthropology on the role of culture in sex/gender power relations in East Asian societies.
(This course is offered as ANTH 415 and SXS 438. Students may not repeat the course under an alternate prefix.)

ANTH 420 Indigenous Media and Social Change (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Examination of contemporary visual culture, particularly commercial culture, for its impact on personal and collective identity. Technical aspects of creating and altering visual media.
(This course is offered as SOC 420 and ANTH 420. Students may not repeat the course under an alternate prefix.)

ANTH 450 Archaeology of Ritual and Religion (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of religion and ritual on a global level from prehistory to the present, from an archaeological perspective. (Plus-minus letter grade only)

ANTH 460 Historical Archeology (Units: 3)
Prerequisite: ANTH 110, or consent of instructor.

Introduction to historical archeology, key themes in historical archeology, critical examination of methods, development of historical archeology, key theoretical approaches, and case studies in historical archeology. (Plus-minus letter grade only)

ANTH 470 Archaeology of Mexico and Central America (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Overview of the prehistory and archaeology of what is now the nations states of Mexico and Central America.

ANTH 471 The Ancient Maya (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Civilization of the Maya Indians of Mexico and Guatemala. Recent findings in Maya archaeology and on interpretations of Maya history, politics, art, economy, and writing.

ANTH 485 Archaeology of Women (Units: 3)
Prerequisite: ANTH 110.

In conventional archaeology, the female half of human societies has been consistently ignored. Puts the forgotten sex back into the past, showing how an engendered archaeology modifies many of our views of human origins and prehistory.

ANTH 490 Ancestors or Data? Culture, Conflict, and NAGPRA (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Political struggles surrounding the creation and implementation of the 1990 Native American Graves Protection and Repatriation Act (NAGPRA). Analysis of the law, impact of recent court decisions, and specific focus on cultural conflicts related to the concept of knowledge.
(This course is offered as AIS 490, ANTH 490, and SOC 491. Students may not repeat the course under an alternate prefix.)

ANTH 500 Language and Cultural Systems of North American Indians (Units: 3)
Prerequisite: AIS 100 or consent of instructor.

Relationship between American Indian language and culture, including topics and skills related to language learning and the historical conditions of cultural retention and revitalization efforts.
(This course is offered as AIS 500 and ANTH 500. Students may not repeat the course under an alternate prefix.)

ANTH 501 Latin America: The National Period (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Latin America since independence (c. 1825). Histories of Latin American peoples: culture, race relations, women, political oppression and resistance, the economy, and development.
(This course is offered as HIST 501, ANTH 501, and LTNS 501. Students may not repeat the course under an alternate prefix.)
ANTH 525 Diversity in the Workplace (Units: 3)
Prerequisite: Upper division standing.

An overview of workplace diversity and strategies to utilize it positively. Theoretical debates and issues related to race, ethnic origin, gender, sexual orientation, class, age, and disability. Ways in which individuals and organizations can maximize benefits through respecting and working with diversity.
(This course is offered as LABR 525 and ANTH 525. Students may not repeat the course under an alternate prefix.)

ANTH 530 Human Osteology Practicum (Units: 4)
Prerequisite for ANTH 730: Graduate standing.
Prerequisite for ANTH 530: ANTH 100.

Human skeleton, bone dynamics, and anthropometric and morphological analysis of modern and fossil skeletal materials. Research on osteological and fossil materials. Classwork, 2 units; laboratory, 2 units.
(ANTH 730/ANTH 530 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ANTH 531 Fossil Humans Practicum (Units: 4)
Prerequisite for ANTH 731: Graduate standing or consent of instructor.
Prerequisite for ANTH 531: Upper division standing or consent of instructor.

(ANTH 731/ANTH 531 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ANTH 535 Paleopathology (Units: 3)
Prerequisite: ANTH 730/ANTH 530 or consent of instructor.

Bioarchaeology of disease and human health. Evolutionary, cultural, and biological factors of prehistoric epidemiology. (Plus-minus letter grade only.)
(ANTH 735/ANTH 535 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ANTH 545 Bioarchaeology (Units: 3)
Prerequisite: ANTH 530 or consent of instructor.

Reconstruction of past lifeways from examination of the human skeleton. Patterns of subsistence, diet, disease, demography, and physical activity reconstructed from skeletal populations.

ANTH 551 Anthropology of the Body (Units: 3)
Prerequisite: Upper division standing or ENG 214.

Comparative cross-cultural approach to the study of the individual in society as mediated through an anthropological inquiry of the body. Social construction of the body and self in everyday life, and ways that cultural practices, social structures, and psychological tests are inscribed and reproduced through the body and bodies.

ANTH 555 Urban Anthropology (Units: 3)
Prerequisites: Upper division standing; one course in cultural anthropology or USP 400.

Impact of urban environments upon human behavior cross-culturally. Ethnographic fieldwork techniques, the history and theoretical roots of urban anthropology, and case studies from around the world.
(This course is offered as ANTH 555 and USP 555. Students may not repeat the course under an alternate prefix.)

ANTH 557 Ethnography of the Inner City (Units: 4)
Prerequisite: ANTH 555.

Participant-observation fieldwork techniques; research projects in inner city communities in the Bay Area. Classwork, 3 units; activity, 1 unit.
(This course is offered as ANTH 557 and USP 557. Students may not repeat the course under an alternate prefix.)

ANTH 569 Cross-Cultural Aspects of Sex and Gender (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Sex, sexuality, and gender; the control of sexuality, cultural components of gender role and gender identity, and symbolic aspects of sex and gender.
(This course is offered as ANTH 569 and SXS 567. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice

ANTH 570 Anthropology of Religion (Units: 3)
Prerequisites: Upper division standing and/or ENG 214. Students who have never taken a college level ANTH course need consent of instructor in order to enroll.

Dynamics and function of religion and magic in human societies; cosmological systems; comparative study of elements, forms, and symbolism of religion.

ANTH 581 Anthropology and Folklore (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Nature and form of folklore, its cultural setting, transmissions and dynamics. Psychological, ethnic, and philosophical considerations of folklore and its relationship to drama, art, and music.

ANTH 585 Globalization and World Cultures (Units: 3)
Prerequisite: ANTH 120 or consent of instructor.

Effects of globalization and multinational corporations on cultures. Examination of contemporary globalization from a combined political-economic and cultural anthropological perspective.
(This course is offered as ANTH 585 and CST 585. Students may not repeat the course under an alternate prefix.)

ANTH 590 Anthropology of Women (Units: 3)
Prerequisite: ENG 114 or equivalent.

Ethnographic, physical, anthropological, and pre-historical materials on women. Theories on origins of the family, social structuring of sexuality, and changing sex and gender in modern societies.
(This course is offered as ANTH 590, CST 590, and WGS 595. Students may not repeat the course under an alternate prefix.)

ANTH 591 Applied Anthropology Media Workshop (Units: 4)
Prerequisites: Upper division standing, ANTH 120 or equivalent, or consent of instructor.

Carrying out ethnographic media projects for local, community-based organizations. Principles of visual anthropology, ethnographic research, and community-based learning are linked to learning practical skills of digital media production.
ANTH 592 Archaeological Methods (Units: 4)
Prerequisite: ANTH 110.
Archaeological theory and methods; field reconnaissance, research design, excavation and laboratory methods; archaeological chronology, typology, cartography, photography, and other skills. Classwork, 2 units; laboratory, 2 units.

ANTH 595 Visual Anthropology I (Units: 6)
Prerequisites: Restricted to Anthropology or Cinema major; ANTH 120, ANTH 300; or consent of instructor.
Introduction to ethnographic digital video production, including methods of ethnographic fieldwork, creation of field notes and research design; basics of digital video planning, production and editing. Classwork 3 units; laboratory and fieldwork 3 units. [CSL may be available] (This course is offered as ANTH 595 and CINE 595. Students may not repeat the course under an alternate prefix.)

ANTH 596 Visual Anthropology II (Units: 4)
Prerequisites: Restricted to Anthropology or Cinema major; ANTH 595 or CINE 595; or consent of instructor.
Advanced filmmaking-based applied anthropological fieldwork, collaboration, and digital post-production techniques. Students complete a video for which they conducted research during the previous semester. Classwork, 2 units; laboratory and fieldwork, 2 units. [CSL may be available] (This course is offered as ANTH 596 and CINE 596. Students may not repeat the course under an alternate prefix.)

ANTH 609 Approaches to the African Past (Units: 3)
Prerequisites: Upper division standing; ENG 214; or consent of instructor.
Explorations of different methodologies for studying the African past, including archaeology, anthropology, oral traditions, and history. (This course is offered as HIST 609 and ANTH 609. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

ANTH 620 History of Anthropological Film (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Historical overview of interconnections between anthropology and filmmaking, from traditional styles and approaches to mass market anthropology, the hyper-aesthetic, textual and reflexive turns and applied visual anthropology. [Formerly ANTH 303]

ANTH 630 Medical Anthropology (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The interplay of culture, genetics, population, and environment; cross-cultural medical education; folk and urban medical systems as moral, social, and cognitive systems.

ANTH 651 Ethnographic Field Methods (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Anthropological data-gathering methods, participant observation, scheduled and open-ended interview, life history, survey, questionnaire, projective techniques, electronic aids. May be repeated for a total of 8 units. Classwork, 2 units; fieldwork, 2 units.

ANTH 652 Anthropological Statistics (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Methods and techniques for analysis of data: collecting and describing data; statistical inference and hypothesis testing; parametric and non-parametric techniques; SPSS training for data analysis. Classwork, 2 units; laboratory, 2 units.

ANTH 657 Ethnology of Dance (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Function of dance in pre-literate, pre-technological societies in the context of anthropological literature. (This course is offered as DANC 657 and ANTH 657. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

ANTH 685 Projects in Teaching Anthropology (Units: 1-3)
Prerequisites: Grade of B or better in course the student will be assisting in and consent of instructor.
Training and assistance in the teaching of anthropology. Students work as teaching assistants to instructors and receive training and instruction in teaching anthropology. Responsibilities include working with supervising faculty, assist in preparing course material, tutoring students, and conducting small discussions. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.) (CR/NC grading only)

ANTH 690 Senior Thesis (Units: 4)
Prerequisites: Successful completion with a grade of B or better in the following courses: ANTH 100, ANTH 110, ANTH 120, ANTH 300; major GPA 3.25.
Provides qualified students the opportunity to undertake a senior thesis. Supervised study of a topic mutually agreed upon by student and faculty.

ANTH 695 Anthropology Internship (Units: 3)
Prerequisites: ANTH 300, ANTH 301 or ANTH 302.
Internship in research, governmental and non-governmental agencies, museums and other public and private institutions. Students must find an anthropology faculty to serve as the academic supervisor. May be repeated for a total of 6 units.

ANTH 699 Independent Study (Units: 1-3)
Prerequisites: Consent of major adviser, department chair, and instructor.
Supervised, individual study of a particular problem in anthropology. The student must state the problem, method of data-gathering, and the method of data-analysis. [CSL may be available]

ANTH 701 Sexual Cultures, Sexual Identities (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.
Concepts of "sexual culture" and "sexual identity" in history and across cultures. (This course is offered as SXS 701 and ANTH 701. Students may not repeat the course under an alternate prefix.)
ANTH 710 Proseminar in Anthropological Theory and Method (Units: 3)
Prerequisite: Graduate standing in anthropology or consent of instructor.

Directed application of anthropological theory, methods and research techniques. Cannot be repeated for credit. Must be taken before or concurrently with other graduate seminars.

ANTH 715 Research Skills: The Craft of Anthropological Writing (Unit: 1)
Prerequisites: Graduate standing; concurrent enrollment in ANTH 710; or consent of instructor.

Strategies to enhance creative thinking. Advanced review of grammar and sentence construction. Organization of MA thesis argument and organization. Dominant writing styles in anthropology understood through the study of Author's Guides to publishing in major journals. (Plus-minus letter grade only)

ANTH 716 Research Skills: The Literature Review (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.

The importance of qualitative and quantitative literature reviews in academic research. Finding the problem and contending with information glut. Advanced on- and offline search skills. Avoiding plagiarism, using evidence matrices, synthesizing data and mastering the authorial tone. (Plus-minus letter grade only)

ANTH 717 Research Skills: The Research Proposal (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.

Developing the research question, originality and timeliness. Defining the research context and specific qualities and antecedents. Selecting the appropriate research method, suitability, practicality, and availability. Contending with ethical constraints and necessary permissions. (Plus-minus letter grade only)

ANTH 718 Research Skills: The Grant Proposal (Unit: 1)
Prerequisite: Graduate standing in anthropology or consent of instructor.

Topics in the foundations of proposal writing: good writing in a good proposal, software options, major granting agencies for anthropological research, proposal statement of need, goals and objectives, the budget, ethics and evaluation, and sustainability and capacity. (Plus-minus letter grade only)

ANTH 720 Foundations in Visual Anthropology (Units: 2)
Prerequisite: Graduate standing in anthropology or consent of instructor.

Classic and contemporary literature in visual anthropology: proxemics and kinesics, semiological studies, indigenous media, shared and sensory anthropological filmmaking, the archive as active, and three approaches to photography, colonialist, Photovoice, and photo elicitation. (Plus-minus letter only)

ANTH 721 Seminar in Archaeological Problems (Units: 2)
Prerequisite: Graduate standing in Anthropology or consent of instructor.

Archaeological approaches and explanations of the past understood through key works in interpretive archaeology and examples of the major archaeological theories. May be repeated for a total of 4 units. [Formerly ANTH 740]

ANTH 722 Seminar in Biological Anthropology (Units: 2)
Prerequisite: Graduate standing in Anthropology or consent of instructor.

Historical and contemporary primary literature in biological anthropology and the importance for anthropology of evolutionary theory, primatology, the primate fossil record, human diversity, anthropological genetics, and NAGPRA.

ANTH 723 Seminar in Problems in Cultural Anthropology (Units: 2)
Prerequisite: Graduate standing in Anthropology or consent of instructor.

Advanced exploration of literature in contemporary schools in cultural anthropology. Topics include post-structuralism, cultural materialism, neo-evolutionism, symbolic anthropology and others. May be repeated for a total of 4 units. [Formerly ANTH 770]

ANTH 730 Human Osteology Practicum (Units: 4)
Prerequisite for ANTH 730: Graduate standing.
Prerequisite for ANTH 530: ANTH 100.

Human skeleton, bone dynamics, and anthropometric and morphological analysis of modern and fossil skeletal materials. Research on osteological and fossil materials. Classwork, 2 units; laboratory, 2 units. (ANTH 730/ANTH 530 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ANTH 731 Fossil Humans Practicum (Units: 4)
Prerequisite for ANTH 731: Graduate standing or consent of instructor.
Prerequisite for ANTH 531: Upper division standing or consent of instructor.

The fossil evidence for human evolution. Comparative primate anatomy and function; skeletal morphology of hominid fossils. Ecological and geological settings. Trends and processes in human evolution. (ANTH 731/ANTH 531 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ANTH 735 Paleopathology (Units: 3)
Prerequisite: ANTH 730/ANTH 530 or consent of instructor.

Bioarchaeology of disease and human health. Evolutionary, cultural, and biological factors of prehistoric epidemiology. (Plus-minus letter grade only.)

(ANTH 735/ANTH 535 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ANTH 750 Seminar in Visual Anthropology: The Fixed Image (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Advanced examination of the fundamental theories, methods, histories, and works of the fixed image in visual anthropology. (Plus-minus letter grade only)

ANTH 755 Seminar in Visual Anthropology: The Moving Image (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Philosophical grounding and historical roots of anthropological film. Theories and anthropological approaches of and to transcultural production, co-production and consumption of moving images. (Plus-minus letter grading only)

ANTH 785 Teaching Anthropology (Units: 1-3)
Prerequisite: Graduate standing. Grade of B or better in course in which student will assist.

Training and assistance in the teaching of anthropology.

ANTH 894 Creative Work Project (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) for the Master of Arts and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
ANTH 897 Directed Thesis Advising and Support (Units: 3)
Directed advising and support for development of theses and creative work projects both before and after enrollment in ANTH 894 or ANTH 898. Enrollment in ANTH 897 is required every spring semester until the culminating experience is completed. (CR/NC grading only)

ANTH 898 Master’s Thesis (Units: 3)
Prerequisite: Consent of instructor and the chair of the thesis committee; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

ANTH 899 Independent Study (Units: 1-3)
Prerequisites: ANTH 710 and consent of student’s graduate major adviser, department chair, and supervising faculty member.

Individual research into a problem in anthropology. Student must state the problem, her/his method of data-gathering, and her/his method of data analysis.
Apparel Design & Merchandising (ADM)

ADM 260 Textiles (Units: 3)
Prerequisite: Sophomore standing and above.
Fiber, yarn, and fabric terminology and production, with an emphasis on the chemical impact the fiber/textile industry has on the environment. Scientific innovations in fiber technology and dyeing, printing, finishing, and consumer care techniques.

Course Attributes:
• B1: Physical Science

ADM 261 Apparel Construction (Units: 3)
Prerequisite: Apparel Design and Merchandising majors or consent of instructor.
Principles and concepts in the clothing field. Pattern analysis, selection, fitting, and technical and experimental construction processes. Classwork, 2 units; laboratory, 1 unit.

ADM 262 Fashion Illustration (Units: 3)
Concepts, techniques, and media in illustrating contemporary and historical dress on the fashion figure. Classwork, 2 units; laboratory, 1 unit.

ADM 265 Introduction to the Fashion Industry (Units: 3)
Prerequisite: Apparel Design and Merchandising majors.
The fashion industry: investigation of the design, manufacturing, and distribution of textile and apparel products for different markets. Career opportunities within all market segments.

ADM 300 Designers of the 20th/21st Centuries (Units: 3)
Prerequisite: Upper division standing.
The impact that outstanding contemporary apparel and interior designers have on each other and the markets of both industries. Examination of common styles, media use, and characteristics of each designer as well as their typical market. (This course is offered as ADM 300 and ID 300. Students may not repeat the course under an alternate prefix.)

ADM 360GW Fashion, Clothing, and Society - GWAR (Units: 3)
Prerequisites: Apparel Design and Merchandising or Family & Consumer Sciences major; ENG 214 or equivalent with a grade of C- or better.
Social, psychological, and economic forces which underlie fashion and affect both the consumer and the clothing market. Physiology and safety of clothing; clothing for specific individuals and family members. (ABC/NC grading only)

Course Attributes:
• Graduation Writing Assessment

ADM 361 Apparel Design I: Flat Pattern (Units: 3)
Prerequisites: Apparel Design and Merchandising major; ADM 261.
Trends in French and American fashion applied to the development of original designs by the flat pattern method. Development of basic pattern and fitting problems. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

ADM 362 Apparel Design II: Draping (Units: 3)
Prerequisites: Apparel Design and Merchandising major; ADM 261.
Original clothing designs by the French draping process. Historical perspective and influence on contemporary costume design. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

ADM 365 Textile Laboratory (Unit: 1)
Prerequisite: Apparel Design and Merchandising major.
Yarn and cloth identification, textile fiber identification through microscopic and chemical testing; stain removal, detergency, dye, and finish tests.

ADM 366 Forecasting Apparel and Interior Design Trends (Units: 3)
Prerequisite: College level drawing class or consent of instructor.
Forces in society that influence apparel and interior design trends; data used to develop trend reports, color reports, retail reports, culminating in a professional forecasting presentation of colors, silhouettes, fabrications, and lifestyles. (This course is offered as ADM 366 and ID 366. Students may not repeat the course under an alternate prefix.)

ADM 369 Fashion Merchandising and Buying (Units: 3)
Prerequisites: Apparel Design and Merchandising major; ADM 360GW.
Factors that affect the merchandising and management of fashion products. Buying functions and the differences of buying techniques used by various types of manufacturers and retailers.

ADM 466 Computer Applications in Clothing and Textile Industry (Units: 3)
Prerequisites: Apparel Design and Merchandising major; ADM 360GW.
Computer software applied to statistical analysis of data, research variables, and development of formal presentation of data based on apparel research. Extra fee required.

ADM 560 Textiles and Apparel in the World Marketplace (Units: 3)
Prerequisites: Graduating senior Apparel Design and Merchandising major; ADM 360GW; concurrent enrollment in CFS 600.
World textile and apparel production and consumption. U.S. apparel import program including domestic policies and international agreements. U.S. textile and apparel exports, international apparel manufacturers, and retailers.

Course Attributes:
• Global Perspectives

ADM 561 Culture and Historical Costume (Units: 3)
Prerequisites: Senior Apparel Design and Merchandising major; ADM 360GW.
Variations in dress patterns developed from the study of historical and cultural influences on western clothing and textiles.

ADM 566 Fashion and the Consumer (Units: 3)
Prerequisites: Senior Apparel Design and Merchandising major; ADM 360GW, ADM 466.
Consumer influences: fashion, mass media, ready-to-wear market, demographics, societal trends, current developments and research in clothing and textiles; relation to behavior and satisfying clothing needs.
ADM 569 Visual Merchandising and Promotion (Units: 3)
Prerequisites for CFS 769: Restricted to Family and Consumer Sciences graduate student; ID 240, a college level drawing class.
Prerequisites for ADM 569: Restricted to Apparel Design & Merchandising graduating senior; ID 240, a college level drawing class; concurrent enrollment in ADM 560, CFS 600.

Application of principles of visual presentation in window displays, point-of-purchase, and other retail venues. Practice with equipment, materials, and techniques used in the presentation of merchandise. Principles and methods of promotion for manufacturers and retailers. [CSL may be available]
(CFS 769/ADM 569 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ADM 661 Advanced Apparel Design Problems (Units: 3)
Prerequisites for CFS 761: Restricted to Family and Consumer Sciences graduate student; ADM 361, ADM 362.
Prerequisites for ADM 661: Restricted to Apparel Design & Merchandising graduating senior; ADM 361, ADM 362; concurrent enrollment in ADM 560, CFS 600.

Clothing design problems related to specific populations. Development of design prototypes based on market analyses of fashion trends. Classwork, 2 units; laboratory, 1 unit. Extra fee required.
(CFS 761/ADM 661 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ADM 665 Product Development for Apparel (Units: 3)
Prerequisites: Apparel Design and Merchandising senior; ADM 260, ADM 265, ADM 360GW, ID 240, or consent of instructor.

Design, merchandising, and quality assurance in the apparel and sewn products industry. Development and implementation of a design idea geared to a specific market.
Course Attributes:

• Environmental Sustainability
Arabic (ARAB)

ARAB 101 First Semester Arabic (Units: 5)
Basic elementary Arabic. Conversation in the language, dictation, reading, study of the fundamentals of grammar, simple oral and written exercises, and an introduction to Arabic-speaking cultures.
Course Attributes:
  • C2: Humanities
  • Am. Ethnic & Racial Minorities
  • Global Perspectives

ARAB 102 Second Semester Arabic (Units: 5)
Prerequisite: ARAB 101 or equivalent.
Continuation of First Semester Arabic.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

ARAB 103 Third Semester Arabic (Units: 5)
Prerequisite: ARAB 102 or equivalent.
Understanding, speaking, reading, and writing Modern Standard Arabic at the intermediate level.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

ARAB 104 Fourth Semester Arabic (Units: 5)
Prerequisite: ARAB 103 or consent of instructor.
Continuation of Third Semester Arabic. Expansion of vocabulary, comprehension, and communicative and writing abilities in Modern Standard Arabic at the intermediate level with a rich cultural component.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

ARAB 206 Intermediate Conversation (Units: 3)
Prerequisite: ARAB 101 or equivalent or consent of instructor.
The development of conversational skills focusing on topic-structures drills and activities appropriate to the context in which the language will be spoken.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

ARAB 260 Arab Culture and Identity in English (Units: 3)
Prerequisite: ENG 214 or consent of instructor.
Arab cultures in the context of the history of the Arab world, through its religious and ethnic diversity, Arab family structures, values, traditions, and customs. Introduction to Arabic literatures and music. Taught in English. [Formerly ARAB 401]
Course Attributes:
  • C2: Humanities
  • Global Perspectives

ARAB 300 Reading Qur’anic Arabic (Units: 3)
Prerequisite: Completion of al-Kitaab Part 1 or equivalent, or at least four semesters of Arabic or equivalent. For native speakers, consent of instructor.
An introduction to readings of the Qur’an, with emphasis on oral quality and literary value.

ARAB 305 Arab American Art and Artists of the Diaspora (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the ethnic, religious, and artistic diversity of Arab American visual artists. Topics include politics, language, culture, identity, economics, and many other issues.
(This course is offered as RRS 305 and ARAB 305. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • Am. Ethnic & Racial Minorities
  • Global Perspectives

ARAB 312 Arab and Arab American Literary Expressions (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of Arab and Arab American women's experiences through interdisciplinary lens and utilization of multiple approaches to expand notions of literary expressions.
(This course is offered as RRS 312 and ARAB 312. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • Am. Ethnic & Racial Minorities
  • Global Perspectives
  • Social Justice

ARAB 400 Islam and Fiction in English (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to various representations of Islam in modern fiction, both in the Islamic world and beyond, focusing on the literary cultural influences portrayed in texts that address Islam and Muslims whether centrally or peripherally.
(This course is offered as ARAB 400 and ETHS 400. Students may not repeat the course under an alternate prefix.)

ARAB 450 Contemporary Arabic and Arab American Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Contemporary literature from Arab American and Arabic speaking communities and their diasporas. Exploration of the political and cultural context of the Arab region by using poetry and fiction as a foundation.
(This course is offered as RRS 450 and ARAB 450. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Am. Ethnic & Racial Minorities
  • Global Perspectives
ARAB 510 History of Arabic Literature I: Classical Arabic Literature (Units: 3)
Prerequisite: Four semesters of lower division Arabic or equivalent or consent of instructor.

Introduction to major themes and ideas in classical Arabic literature, focusing on major poetry and prose works from the pre-Islamic and early Caliphate eras.
(This course is offered as ARAB 510 and ETHS 510. Students may not repeat the course under an alternate prefix.)

ARAB 511 History of Arabic Literature II: Modern Arabic Literature (Units: 3)
Prerequisite: Four semesters of lower division Arabic or equivalent or consent of instructor.

Introduction to major themes and ideas in modern and contemporary Arabic literature from various countries (e.g., Morocco, Algeria, Egypt, Syria, Sudan), focusing on major works from the late 19th century to the present.
(This course is offered as ARAB 511 and ETHS 511. Students may not repeat the course under an alternate prefix.)

ARAB 600 Modern Arabic Literature and Film in English (Units: 3)
Prerequisite: ENG 214 or equivalent.

Fostering critical skills in reading literary texts and cultivating appreciation of literary concepts through different textual media. Understanding dynamics of exchange between modern Arabic fiction and film, including narrative elements.

ARAB 650 Modern Arabic Fiction in English (Units: 3)
Prerequisite: ENG 214 or consent of instructor.

Introduction to modern Arabic literature and the intertwining of fiction and history. [Taught in English]
(ARAB 850/ARAB 650 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ARAB 850 Modern Arabic Fiction in English (Units: 3)
Prerequisite: ENG 214 or consent of instructor.

Introduction to modern Arabic literature and the intertwining of fiction and history. [Taught in English]
(ARAB 850/ARAB 650 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Art (ART)

ART 103 Shop Safety for Artists (Unit: 1)
Prerequisite: Restricted to Art majors and minors.
Introduction to best and safe practices for art practitioners whose work requires fabrication using power tools, welding, and a variety of hand tools used in wood and metal work. Activity.

ART 201 Western Art History I (Units: 3)
Conceptual and technical relationship of visual culture to the social, political, and economic life of the Ancient Greek, Ancient Roman, Byzantine, Early Medieval, Romanesque, Gothic, Renaissance, and Southern Baroque periods.
Course Attributes:
  • C1: Arts

ART 202 Western Art History II (Units: 3)
Conceptual and technical relationship of visual culture to the social, political, and economic life of the Northern Baroque, Rococo, Neoclassical, Romantic, Impressionist, and Modernist periods.
Course Attributes:
  • C1: Arts

ART 205 Asian Art History (Units: 3)
Conceptual and technical relationship of visual form to values in the art of China, Korea, Japan, India, Tibet, and South-East Asia. (This course is offered as ART 205 and HUM 205. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • C1: Arts
  • Global Perspectives

ART 210 Introduction to Digital Media Arts (Units: 3)
Fundamentals, principles, and tools for 2D/3D graphics, time-based media, and interactive art; aesthetics, visual and verbal language; art historical and current practices in the media. Classwork, 1 unit; activity, 2 units.

ART 222 Introduction to Textile Art (Units: 3)
Studio experiences correlating textile media with basic techniques and processes. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 231 Drawing 1 (Units: 3)
Studio experiences with dry and wet materials. Visual translation of threedimensional objects to a two-dimensional surface, as well as approaches to copying, abstraction and pattern using linear, tonal and volumetric indication, and perspective, with attention to composition. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 232 Drawing as Thinking: Sketchbooks as a Portable Studio (Units: 3)
Introduction to a variety of drawing techniques and approaches to develop observational, expressive, and thinking vocabularies in art practice; methodologies for the studio and the field using sketchbooks. Classwork, 1 unit; activity, 2 units.

ART 235 Printmaking 1 (Units: 3)
Studio experiences correlating drawing and printmaking media with basic techniques and processes. Classwork, 1 unit; activity, 2 units. Extra fee required.
Course Attributes:
  • C1: Arts

ART 236 Introduction to Screen Printing (Units: 3)
Introduction to screen printing processes through the production of small editions. Consideration of screen print history, fundamentals of visual representations, and the role of prints in contemporary art. Classwork, 1 unit; activity, 2 units.

ART 240 Introduction to Contemporary Sculpture (Units: 3)
Studio experiences exploring sculptural, theoretical, and visual processes using a variety of materials, methods, and context as means of investigation. Emphasis on personal creative growth and development. Classwork, 1 unit; activity, 2 units. Extra fee required.
Course Attributes:
  • C1: Arts

ART 245 Ceramics 1 (Units: 3)
Studio experiences correlating clay media with basic techniques and processes. Classwork, 1 unit; activity, 2 units. Extra fee required.
Course Attributes:
  • C1: Arts

ART 260 Photography 1 (Units: 3)
Black and white film processing and printing. Study of photography as a creative medium. 35mm camera with manually adjustable apertures and shutter speeds required. Automatic cameras not acceptable. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 303 The Artist in the 20th-21st Centuries: Cultures in Collision--Cultures in Fusion (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Multi-cultural, multi-ethnic overview of selected topics in 20th-21st century art. Examines artists who have moved out of their own cultural frameworks to create alternative expressions.

ART 306 Modern and Contemporary Art in a Global Context: 1945-Present (Units: 3)
Prerequisites: Upper division standing or consent of instructor; restricted to art majors.
A survey of major movements and themes in art internationally since 1945. [Formerly ART 506]

ART 311 Interactive Arts 1 (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Skills, knowledge, concepts, and aesthetics in designing interactive artworks using basic electronics, microcomputers, and microcontrollers in a fine arts context. Classwork, 1 unit; activity, 2 units.
ART 365 Documentation and Archiving Practices for the Visual Artist (Unit: 1)
Prerequisite: Restricted to upper division Studio Art and Art History majors and minors.
Focus on practical tools employed by visual artists in documentation and archiving of artworks, including but not limited to photography fundamentals, studio lighting fundamentals for 2D and 3D artworks, labeling of artworks, archiving of digital files, and digital imaging practices.

ART 370 Introduction to Art Practice (Unit: 1)
Prerequisites: Restricted to junior Art majors; ENG 214 or equivalent with a grade of C or better; or consent of instructor.
Orientation to major program and concentrations; resources; and extracurricular opportunities; and issues and trends in art practice. How to select a faculty adviser and develop a program of major study. Introduction to vocational outlooks and opportunities for graduate study. (CR/NC only)

ART 400GW Writing About Art - GWAR (Units: 3)
Prerequisites: Restricted to upper division Art majors and minors; ENG 214 or equivalent with a grade of C or better.
Introduction to basic art historical methodologies with an emphasis on formal analysis and formal description of works of art. (ABC/NC grade only)

Course Attributes:
- Graduation Writing Assessment

ART 401 Greek Art and Archaeology (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Greek material culture (art, architecture, city planning, etc.) from the Bronze Age to second century CE. (This course is offered as CLAR 420 and ART 401. Students may not repeat the course under an alternate prefix.)

ART 402 Roman Art and Archaeology (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Roman material culture (art, architecture, city planning, etc.) from the foundation of Rome to the reign of Justinian. (This course is offered as CLAR 425 and ART 402. Students may not repeat the course under an alternate prefix.)

ART 403 Queer Art History (Units: 3)
Prerequisites: ART 201 or ART 202 or equivalent, consent of instructor.
Case studies, primarily of Western art. Homophobia, censorship, reconstructing gay and lesbian history, major artists, visual codes, eroticism, lesbian feminism, families and communities, racial diversity, AIDS, other issues. (This course is offered as ART 403 and SXS 405. Students may not repeat the course under an alternate prefix.)

ART 405 Art, Literature, and Power in the Renaissance (Units: 3)
Prerequisite: ART 201 or ART 202 or equivalent.
European renaissance and baroque art and literature, related to power structures affecting all aspects of culture and society. (This course is offered as ART 405 and HUM 405. Students may not repeat the course under an alternate prefix.)

ART 406 Renaissance Art (Units: 3)
Prerequisites: ART 201, ART 202, or equivalents.
Painting, sculpture, and architecture of the 14th, 15th, and 16th centuries in Italy and Northern Europe.

ART 410 Conceptual Strategies I (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Conceptual strategies for artists such as listing, language, chance, etc. Conceptual frameworks, methods, and strategies with studio art production and digital media. Primacy of ideas and processes in studio work. Influences among technology, art, culture, and everyday life. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 412 Computer Applications in Conceptual Design I (Units: 3)
Prerequisites: Upper division standing; priority enrollment given to Art majors.
Digital computer as a design tool. Programming to create and manipulate graphic imagery, including graphic, sound, and text events. No computer background required. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 416 Contemporary Asian Art (Units: 3)
Prerequisite: ART 205 or equivalent.
Art history survey of Asian art in India, China, Japan, Philippines, Thailand, Vietnam and Indonesia from late 19th century to present. Exploration of post-colonialism, Orientalism, globalization and neo-traditionalism themes. (Formerly a topic under ART 502)

ART 417 The Art and Architecture of Islam (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Case study examination of the tradition and practices of Islamic art and architecture, artistic developments from the 7th century to the present, and regional variations in Africa, Asia, and Europe. (Formerly ART 504)

ART 418 Art History, Ancient to 19th Century: Special Areas (Units: 3)
Prerequisites: Restricted to Art majors and minors; ART 201 or ART 202 or equivalent.
Investigation of specific themes, periods, styles, geographical areas, and/or media in art history from the Ancient period through the 19th century. Topics to be specified in the class schedule. May be repeated when topics vary.

ART 419 Art History, 20th and 21st Century: Special Areas (Units: 3)
Prerequisites: Restricted to Art majors and minors, ART 201, ART 202, or equivalents.
Investigation of specific themes, periods, styles, geographical areas and/or media in art history during the Modern and Contemporary periods. Topics to be specified in the class schedule. May be repeated when topics vary.

ART 421 Global Perspectives in Art History: Special Areas (Units: 3)
Prerequisites: Restricted to Art majors and minors; ART 205 or equivalent.
Investigation of specific themes, periods, styles, geographical areas and/or media in art history with an emphasis on global practices and perspectives emerging in Asia, Africa, the Middle East, Latin America, and their diasporas. Topics to be specified in the class schedule. May be repeated when topics vary.
ART 422 Weaving I - Beginning (Units: 3)
Prerequisite: ART 222 or equivalent.
Basic weaving techniques using four harness looms. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units on advisement. Extra fee required.

ART 423 Constructed Surfaces (Units: 3)
Prerequisites: Restricted to upper division Art majors and minors; ART 222.
Exploration in relief surface treatments using a variety of approaches incorporating textile-related techniques. Possibilities of raw materials and substrates for adhesion, integration or construction; conceptual contribution that material selection and working process make. Classwork, 1 unit; activity, 2 units. (Plus-minus letter grade only) Extra fee required.

ART 424 Surface Design Studio (Units: 3)
Prerequisite: ART 222 or equivalent.
Fundamental surface design techniques on fabric for producing two- and three-dimensional forms with emphasis on the design process and concept development. Studio activities from portfolio samples to larger fine art pieces are explored. May be repeated for a total of 6 units on advisement. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 430 The Language of Observational Painting (Units: 3)
Prerequisites: Restricted to junior standing Art majors and minors; ART 231 or equivalent.
Exploration and development of oil painting practice with an emphasis on translating three dimensions into two using color, value, and mark-making toward representational ends. Traditional and non-traditional approaches to starting, developing, and resolving paintings, how to distinguish and articulate quality and meaning in works of art. Classwork, 1 unit; activity, 2 units.

ART 431 Painting 1 (Units: 3)
Prerequisites: Restricted to art majors; ART 231 or equivalent.
Concepts, techniques, and disciplines of painting. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 432 Drawing 2 (Units: 3)
Prerequisites: Restricted to Art majors; ART 231 or equivalent.
Drawing concepts and media. Classwork, 1 unit; activity, 2 units. Extra fee required. May be repeated for a total of 6 units.

ART 433 Figure Drawing (Units: 3)
Prerequisites: Restricted to Art majors; ART 231 or equivalent.
Figure drawing concepts in varied media. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 434 Color Workshop (Units: 3)
Prerequisites: Restricted to Art majors; ART 231 or equivalent.
Color vocabulary and theoretical concepts of color. Color is fundamental to painting and other disciplines. Pigments, dyes, inks. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 435 Printmaking Workshop: Relief (Units: 3)
Prerequisites: ART 235 and 3 units of drawing from ART 231, ART 432, ART 433, ART 533, or equivalent.
Relief workshop. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 436 Printmaking Workshop: Intaglio (Units: 3)
Prerequisites: ART 235 and 3 units of drawing from ART 231, ART 432, ART 433, ART 533, or equivalent.
Intaglio workshop. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 437 Printmaking Workshop: Lithography (Units: 3)
Prerequisites: ART 235 and 3 units from ART 231, ART 432, ART 433, ART 533, or equivalent.
Lithography workshop. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 438 Monoprinting (Units: 3)
Prerequisites: ART 235 and 3 units of drawing from ART 231, ART 432, ART 433, ART 533, or equivalent.
Exploration of process. Experimentation and re-evaluation of the medium and its relationship to traditional printmaking. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 439 Screen Printing (Units: 3)
Prerequisites: Restricted to Art majors and minors; ART 235 or equivalent.
Screen printing processes that utilizing hand drawn and photo-emulsion stencils with a focus on printing on paper and the role of screen prints in contemporary art. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required. (Plus-minus letter only) [Formerly under ART 536, topic “Silkscreen”]

ART 440 Material Research and Conceptual Strategies (Units: 3)
Prerequisites: Restricted to Art majors; ART 240 or equivalent.
Development of sculptural/artistic ideas, skills, materials, and steel and wood fabrication. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 445 Ceramics 2 (Units: 3)
Prerequisites: Restricted to Art majors; ART 245 or equivalent.
Clay and glaze. Form exploration with wheel and hand-building techniques. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 12 units with consent of instructor. Extra fee required.

ART 460 Photography 2 (Units: 3)
Prerequisites: Restricted to Art majors; ART 260 or equivalent beginning black and white chemical process photo course.
Advanced black and white photochemical processes, techniques that utilize contemporary art concepts and approaches. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 501 Western Art: Special Areas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Investigation of specific themes, periods, styles, and/or media in Western Art History. Topic to be specified in Class Schedule. May be repeated as topics vary.

ART 502 Asian Art: Special Areas (Units: 3)
Prerequisite: ART 205 or equivalent.
Investigation of specific themes, issues, and media in Asian and Asian American art history. Topic to be specified in the Class Schedule. May be repeated when topics vary.
ART 507 Art of China (Units: 3)
Prerequisite: ART 205 or equivalent.

Historical development of painting, sculpture, and other arts in China from earliest times to the 19th century within the larger context of Chinese culture. (This course is offered as ART 507 and HUM 507. Students may not repeat the course under an alternate prefix.)

ART 509 Art Productions: Studio, Art History, Art Education (Unit: 1)
Prerequisite: Upper division Art majors and minors.

Research, design, and development of visual material for instructional purposes. Concurrent enrollment permitted in two different sections of the course. Laboratory. May be repeated for a total of 3 units.

ART 511 Conceptual and Information Arts: Special Areas (Units: 3)
Prerequisites: Restricted to upper division Art majors or consent of instructor.

Examination of conceptual and theoretical aspects of digital media and emerging technologies for artists in relation to visual art practice. Topic to be specified in Class Schedule. Classwork, 1 unit; activity, 2 units. May be repeated when topics vary. Extra fee required.

ART 513 Digital Video and Sound (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

An introduction to digital video art including video production, history and current practices. Extra fee required. [Formerly under ART 511, topic “Digital Video: Interactive Images”]

ART 516 Advanced Topics in Art History (Units: 3)
Prerequisites: Restricted to upper division Art majors and minors; at least one 300 or 400 level art history course.

Investigation of advanced topics in art history. Topic to be specified in the class schedule. May be repeated for a total of 12 units when topics vary.

ART 522 Weaving 2 - Intermediate (Units: 3)
Prerequisite: ART 422 or equivalent.

Expands on the technical and creative skills acquired in Weaving I. Intermediate hand weaving and textile concepts using eight-harness floor looms. Exploration of multi-harness weave structures from sampling towards individual art projects. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 524 Surface Design 3 (Units: 3)
Prerequisite: ART 424 or equivalent.

Experimental surface design applied to the study of costume. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 525 Textiles Studio Process (Units: 3)
Prerequisites: Restricted to upper division Art majors or minors; ART 222, two upper division ART courses; or consent of instructor.

Advanced studio experience for self-guided studio projects and assignments. Exploration and investigation of technique and mechanics necessary to create fully resolved and in-depth works of art. Classwork, 1 unit; laboratory, 2 units. May be repeated for a total of 6 units. (Plus-minus letter grade only.)

ART 527 Repeat Pattern for Fine Art (Units: 3)
Prerequisites: Restricted to upper division Art majors and minors or consent of instructor; basic computer skills and familiarity with Photoshop and Illustrator.

Studio experience exploring pattern repeat principles, mechanics, and creation toward contemporary uses in various disciplines of fine arts and design; methods of producing repeat pattern, from handmade to computer-aided, are discussed and demonstrated. Classwork, 1 unit; activity, 2 units. Extra fee required. (Plus-minus ABC/NC, CR/NC) [Formerly a topic under ART 523]

ART 529 Textile Futures (Units: 3)
Prerequisites: Restricted to upper division Art majors and minors; ART 222, 3 units from ART 422 or ART 424 or ART 624; or consent of instructor.

Exploration of the intersection of textiles and emergent technologies and processes towards new ways of creating, defining, and experiencing textiles. Students will learn about the current climate of future textiles in practice, concept, and theory and will develop their own project concepts. Classwork, 1 unit; activity, 2 units. (Plus-minus letter grade only) Extra fee required. [Formerly ART 523, topic “Textile Futures”]

ART 530 Intermediate Painting: The Expanded Field (Units: 3)
Prerequisites: Restricted to upper division Art majors and minors; ART 430 or equivalent.

Contemporary approaches and concerns in painting practice. Topics to be specified in the Class Schedule. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 9 units when topics vary.

ART 531 Painting 2 (Units: 3)
Prerequisites: Restricted to Art majors; ART 431.

Special problems in painting. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 533 Figure Painting (Units: 3)
Prerequisites: Restricted to Art majors; ART 431, ART 433 or equivalent.

Problems in painting the human figure. May be repeated for a total of 6 units. Classwork, 1 unit; activity, 2 units. Extra fee required.

ART 534 Mixed Media Painting (Units: 3)
Prerequisites: Restricted to Art majors; ART 231, ART 431 or equivalents.

Formal, conceptual, and structural aspects of painting using traditional and non-traditional mediums, including mechanical and digital reproduction. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 535 Artist’s Books (Units: 3)
Prerequisite: 3 units of printmaking in ART 435, ART 436, ART 437, ART 438 or equivalent.

Intensive exploration of the artist book from the perspective of the bookbinder, printer, and writer including the ways in which contemporary artists self-publish. Includes units on the creative process, book structures, and letterpress printing. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required. (Plus-minus letter only) [Formerly under ART 536, topic “BookArts”]

1393
ART 536 Printmaking: Special Areas (Units: 3)
Prerequisite: 3 units of printmaking from ART 435, ART 436, ART 437, ART 438 or equivalent, or consent of instructor.
Topic to be specified in Class Schedule. Classwork, 1 unit; activity, 2 units. May be repeated when topics vary. Extra fee required.

ART 539 Art Productions: Drawing, Painting, and Printmaking (Unit: 1)
Prerequisite: Upper division Art majors and minors.
Research, design, and development of visual material for instructional purposes. Concurrent enrollment permitted in two different sections of the course. Laboratory. May be repeated for a total of 4 units.

ART 540 Sculpture and the Expanded Practice (Units: 3)
Prerequisites: Restricted to Art majors; ART 440.
Development of sculptural expertise and personal creative growth. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 9 units. Extra fee required.

ART 541 Installation Art (Units: 3)
Prerequisite: 400 level studio course.
Investigation of personal aesthetic and theoretical issues as they relate to creating sculptural installation works where the whole (context/environment) is more than the sum of parts. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 543 Hydrarchy: Nautical Art, Watercraft & the Art of Resistance (Units: 3)
Prerequisite: Restricted to senior Art majors and minors; 400 level studio course; or consent of instructor.
Focus on generating artworks in a variety of media, informed by investigation of broad nautical themes, culture, and myth; cultural diaspora; international trade; and native versus invasive ecosystems. Classwork, 1 unit; activity, 2 units. [Formerly ART 677]

ART 544 Raku (Units: 3)
Prerequisites: Priority enrollment given to Art majors; ART 545 or consent of instructor.
Methods of obtaining basic glazes, advanced slip decoration and design, building and understanding of varied oriental raku kilns, and reduction and oxidation firing. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 545 Ceramics 3 (Units: 3)
Prerequisites: Restricted to Art majors; ART 445 with a grade of C or better.
Problems in ceramics. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 546 Glaze Surfaces (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Conducting advanced experiments in the production of a clay body. Calculating, executing, and experimenting with various aspects of the glaze potential. Constructing kilns and participating in their firing. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 560 Photography 3 (Units: 3)
Prerequisites: Restricted to Art majors; ART 260, ART 460 or equivalent.
Introduction to imaging processes using Adobe Photoshop. This is a bridge course where analog media is translated to digital information for printing. Assignments combine technical exercises with conceptual themes in contemporary photography. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 6 units. Extra fee required.

ART 562 Color Photography I (Units: 3)
Prerequisites: Restricted to Art majors; ART 460 or equivalent.
Advanced digital color photography and image processing and printing. Digital camera with Camera Raw file capability required. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 9 units. Extra fee required.

ART 563 Topics in Photography (Units: 3)
Prerequisites: Restricted to Art majors; ART 460.
Examination and exploration of the concepts, and implementation of, the tools and techniques of photographic and lens-based processes and practices. Topic to be specified in the Class Schedule. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 9 units when topics vary. Extra fee required.

ART 570 Internships in the Visual Arts (Units: 1-3)
Prerequisites: Restricted to upper division Art majors and minors; 20th/21st century art history course with a grade of B or better.
Internship experience in the arts that include gallery work, studio assistantships, research, etc. (Plus-minus ABC/NC, CR/NC)

ART 600 Studio Process: Self Directed Practice (Units: 3)
Prerequisites: Restricted to senior Studio or Art History/Studio majors; minimum of two 500 level studio courses in a single discipline within Art.
Interdisciplinary studio capstone course that combines research, art making, seminar, and critique. Lecture, 1 unit; activity, 2 units. May be repeated for a total of 6 units. (Plus-minus letter grade only)

ART 602 Art History Seminar (Units: 3)
Prerequisite: Upper division Art majors with an art history or dual art history/studio concentration, or consent of instructor.
Advanced seminar in specific topics, themes, and research methods in Art History. Topics to be specified in the Class Schedule. May be repeated when topics vary. (ABC/NC grading; CR/NC allowed)

ART 610 Conceptual Strategies III (Units: 3)
Prerequisites: ART 410, ART 412, 6 units of ART 511, and consent of instructor.
Production and research projects. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 9 units.

ART 612 Computer Applications in Conceptual Design III (Units: 3)
Prerequisites: ART 410, ART 412, and 3 units of ART 511, and consent of instructor.
Conceptual design computer applications workshop. Classwork, 1 unit; activity, 2 units. May be repeated for a total of 9 units. Extra fee required.
ART 619 Exhibition Design (Units: 3)
Prerequisites: Restricted to upper division Art major or student in
Museum Studies program.
Theory and production of exhibitions, including planning, collecting,
preparation, annotation, and criticism. May be repeated for a total of 6
units.
ART 624 Sculptural Cloth and Fiber (Units: 3)
Prerequisite: ART 222 or consent of instructor.
Exploration of object making, as well as ideas in installation, through the
learning of ways to shape cloth and fiber into forms and structures using
a variety of textile related techniques and approaches. Classwork, 1 unit;
activity, 2 units. Extra fee required.
ART 631 Painting 3 (Units: 3)
Prerequisite: Portfolio review.
Advanced painting course that supports diverse practices and old and
new methods of image making. Students complete a body of work while
developing awareness of contemporary conceptual and profession
concerns. Classwork, 1 unit; activity, 2 units. May be repeated for a total
of 9 units. Extra fee required.
ART 635 Advanced Printmaking (Units: 3)
Prerequisite: Departmental recommendation and consent.
Advanced printmaking projects emphasizing aesthetic and technological
developments. Classwork, 1 unit; activity, 2 units. May be repeated for a total
of 6 units. Extra fee required.
ART 640 Independent Research & Practice Development (Units: 3)
Prerequisites: Restricted to Art majors; ART 540; and departmental
recommendation and consent.
Sculpture workshop. Classwork, 1 unit; activity, 2 units. May be repeated
for a total of 9 units. Extra fee required.
ART 645 Ceramics 4 (Units: 3)
Prerequisites: Restricted to art majors; departmental recommendation
and consent.
Ceramics workshop. Classwork, 1 unit; activity, 2 units. May be repeated
for a total of 9 units. Extra fee required.
ART 660 Photography 4 (Units: 3)
Prerequisites: Restricted to Art majors; ART 560 or equivalent.
Photography workshop. Classwork, 1 unit; activity, 2 units. May be
repeated for a total of 9 units. Extra fee required.
ART 662 Color Photography II (Units: 3)
Prerequisites: Restricted to Art majors; ART 562 or ART 563.
Advanced digital color printing and image processing. Digital camera with
Camera Raw file capability required. Classwork, 1 unit; activity, 2 units.
May be repeated for a total of 6 units. Extra fee required.
ART 663 Honors Seminar in Photography (Units: 3)
Prerequisites: Restricted to senior Art majors and minors; concurrent
enrollment in any 500 or 600 level photography course.
Examination of philosophical and critical issues in contemporary
photography art practice that include reading salient texts, looking at
contemporary photography and examining in this context student work.
ART 670 Art as Inquiry - Interdisciplinary Studio Experiences (Units: 3)
Prerequisites: Senior Art major; two 500 level or one 600 level course in
area of emphasis.
Self-directed studio research/inquiry focusing on the why, what and how
of studio art practice. Emphasis on contemporary practice and theory,
creating a cohesive body of work, and critical feedback. Classwork, 1 unit;
activity, 2 units. May be repeated for a total of 6 units.
ART 685 Projects in the Teaching of the Visual Arts (Units: 1-3)
Prerequisites: Consent of instructor and completion of equivalent course
in the subject matter.
Teaching experiences in art, art education, and art history through
assigned instructional projects as classroom aides. Training in teaching
principles including supervised classroom teaching activities. (Students
may earn a maximum of 4 units toward the baccalaureate degree for any
course(s) numbered 685 regardless of discipline.)
ART 699 Independent Study (Units: 1-3)
Prerequisites: Upper division standing, consent of instructor, advisor, and
college dean.
Independent study, under supervision of a faculty member selected by
the student, of some aspect of the field not covered by regular courses.
May be repeated for a total of 4 units with consent of instructor, adviser,
and department chair. No more than 3 units can be taken during any one
semester.
ART 700 Contemporary Art History: Practice, Theory, Criticism (Units: 3)
Prerequisite: Classified graduate standing in Art.
Seminar in contemporary art history, theory, and criticism as they apply
to the creative artist. Should be completed in the first semester of
enrollment of classified graduate studies. (Plus-minus letter grade only)
ART 701 Art History: Images and Meaning (Units: 3)
Prerequisites: Classified graduate standing and/or consent of instructor;
ART 602, ART 700.
Advanced research seminar in art history. Historical area studies,
iconography, and textual analyses. May be repeated for a total of 6 units.
ART 702 Graduate Art History Methods (Units: 3)
Prerequisite: Classified graduate status.
Graduate seminar in art history research methods. May be repeated for a
total of 6 units.
ART 703 Art History Research Applications (Units: 3)
Prerequisite: ART 700 or ART 701 or consent of instructor.
Develop professional skills in problem formulation, visual and textual
analysis, and art historical argument.
ART 704 Interdisciplinary Critique Seminar (Units: 3)
Prerequisites: Classified standing in art, consent of instructor and
graduate major adviser.
Intensive critical investigation of selected aspects of the visual arts. May
be repeated for a total of 18 units.
ART 705 Contemporary Art (Units: 3)
Prerequisites: ART 700 and not less than 6 units of art history including
ART 203 or ART 506 or equivalents taken within the last 5 years.
Focus on the research of both the visual theories and the
accomplishments of the post-WW II period and the changing attitudes
and styles that form contemporary traditions.
ART 750 Seminar in Teaching Art Practice (Units: 3)
Prerequisite: Classified M.F.A. graduate standing or consent of instructor.
Development of teaching and related career preparation skills, philosophies and curriculum planning in art practice fields. Strongly recommended for teaching assistants in ART 850. May be taken by advanced undergraduates preparing for college level teaching careers in art.

ART 780 Art Processes and Practices: Visiting Artists and Scholars (Unit: 1)
Prerequisite: Classified graduate standing and consent of instructor.
Introduction to and exploration of specific approaches and processes in individual art practice, including writing, discussion and material research. May be repeated for a total of 6 units. (CR/NC grading only)

ART 789 Professional Practices for Visual Artists (Units: 3)
Prerequisite: MFA students in School of Art.
Deepen the understanding of the practical tools employed by professional contemporary artists, including but not limited to grant writing, work fabrication, exhibition design, daily practice, and professional identity in relationship to each student's individual practice. (Plus-minus ABC/NC)

ART 850 Directed Experience in Public Roles for Artists (Units: 3)
Prerequisites: Classified graduate standing in art, consent of supervising instructor and graduate major adviser.
Supervised directed experiences and seminar in the teaching of art and/or internship in other public roles that artists occupy, etc. May be repeated for a total of 6 units.

ART 852 Directed Experience in Art Education (Units: 3)
Prerequisites: Classified graduate standing, consent of the supervising instructor and the graduate major adviser.
Experiences in the teaching of art under the supervision of an instructor.

ART 853 Directed Experience in Museum Education (Units: 3)
Prerequisites: ART 700, ART 705, or ART 602 and consent of the graduate major adviser.
Intern experience in museums, community centers, and art programs under the supervision of an Art Department instructor. May be repeated for a total of 6 units.

ART 882 Tutorial in Studio (Units: 3)
Prerequisites: Classified graduate standing in art and consent of instructor and graduate major adviser.
Critical direction on a one-to-one basis. Intended to develop a student's individual vision and capabilities as a professional artist. May be repeated for a total of 6 units.

ART 890 Creative Work Research (Units: 3)
Prerequisites: ART 700, ART 704, ART 705, and consent of major adviser.
Development of creative research in the art area with direct application to the creative work project. Must be taken in the semester before acceptance in ART 894.

ART 894 Creative Work Project (Units: 3)
Prerequisites: ART 890, consent of instructor and approval of Advancement to Candidacy (ATC) for the Master of Fine Arts and Culminating Experience (CE) forms by Graduate Studies.
ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before enrollment. Not repeatable unless taken previously for an M.A. at State. May be repeated with approval of the department chair.

ART 897 Research Projects in Art (Units: 3)
Prerequisites: ART 700, ART 704, ART 705, and consent of graduate major adviser.
Development of a problem of major interest to a student with direct application of methods of research, research findings, and production to creative activity in the art area.

ART 898 Master's Thesis (Units: 3)
Prerequisites: ART 700, ART 701, ART 702, ART 703, consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. One semester paper demonstrating art historical theory, methods, research. ATC and Proposal for Culminating Experience Requirement forms must be approved by Graduate Studies before registration. (CR/NC grading only.)

ART 899 Independent Study (Units: 1-3)
Prerequisite: Classified graduate standing and consent of instructor.
Independent study, under supervision, of some aspect of the field related to the student's final thesis or project. May be repeated for a total of 6 units with consent of instructor. (CR/NC grading only)
Asian American Studies (AA S)

AA S 101 First year experience (Units: 3)
Prerequisites: First year freshmen or transfer students; concurrent enrollment in one of the following courses: AA S 110, AA S 210, AA S 216, RRS 103, or RRS 303.

Foundations of intellectual, academic, and career preparation for students enrolled in Asian American Studies courses.

AA S 102 Identity, Equity, and Student Success (Units: 3)
Exploration of racial/cultural identity, equity, and student success. Topics include an overview of academic success skills, racial/cultural identity development, social justice, equity and personal and community responsibility, educational strategies and planning, interpersonal communication, career development, health issues, and self-assessment strategies. May be repeated for a total of 6 units.

AA S 110 Critical Thinking and the Asian American Experience (Units: 3)
Development of basic critical thinking skills involved in understanding, criticizing, and constructing arguments reflective of the experience of Asian Americans and key themes in Asian American Studies. (Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.) Course Attributes:

- A3: Critical Thinking
- Am. Ethnic & Racial Minorities

AA S 210 History of Asians in the United States (Units: 3)
Comparative analysis of the experience of different Asian American groups and their place in the general history and development of American society. [Formerly AA S 200]

Course Attributes:

- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities

AA S 211 Contemporary Asian Americans (Units: 3)
Examination of factors that define minority groups and their positions in contemporary U.S. society, using Asian Americans as a case study. [Formerly ETHS 220]

Course Attributes:

- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 212 Asian Americans and Mass Media (Units: 3)
Images and treatment of Asian Americans in mass media, especially motion pictures, television, advertising, popular literature, and commercial art. American minorities in the entertainment industry. [Formerly AA S 518 and AA S 693]

Course Attributes:

- C1: Arts
- Am. Ethnic & Racial Minorities

AA S 213 Asian Americans and American Ideals and Institutions (Units: 3)
The Asian American experience in the U.S., focusing on basic governmental ideals and institutions. Impact of Asians on legal-constitutional America and the countervailing impact of political-legal structures imposed on Asians. [Formerly AA S 205]

Course Attributes:

- U.S. Govt CA State Local Govt
- D3: Social Sciences: US CA Gov
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 214 Second Year Written Composition: Asian American Studies (Units: 3)
Prerequisite: ENG 114 or equivalent with a grade of CR or C- or better. Reading and writing with speech as a supportive language skill. Must be taken after completing 24 units and before completing 60 units. (Plus/minus ABC/NC, CR/NC allowed)

Course Attributes:

- A4: Written English Comm II
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 216 Introduction to Asian American Literature (Units: 3)
Reading and analysis of Asian American literature. Appreciation of literature from a literary standpoint with a focus on history, identity, and representation. [Formerly AA S 206]

Course Attributes:

- C3: Humanities: Literature
- Am. Ethnic & Racial Minorities

AA S 218 Asian American Culture (Units: 3)
Ethnic values and cultures in America using Asian American arts, languages, and literatures. How these works reflect and express the character of the Asian American experience and the forces that have shaped that experience. [Formerly ETHS 210]

Course Attributes:

- E1: Lifelong Learning Develop
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 301 Asian Americans of Mixed Heritages (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Issues concerning Asian Americans of mixed racial and ethnic heritages, focusing on mixed heritage identities in relation to their ethnic and cultural sensibilities. [Formerly AA S 550]

Course Attributes:

- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice
AA S 320 Chinese in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

The Chinese American experience in critical historical perspective from the beginning of immigration in the 19th century to the present. [Formerly AA S 310]

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 322 Chinese American Language and Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Cultural identity of the Chinese American as it is expressed in the language and literature, Chinese community and its influence on the creative process in literature.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 323 Chinese American Identities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Historical, institutional, and cultural sources of Chinese American identity and sensibility. Mental health issues related to self-perception, stereotypes, family problems, institutional racism, and the development of autonomy. [CSL may be available] [Formerly AA S 318]

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 330 Nikkei in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Historical experience of Japanese Americans in the United States: prewar immigration and settlement, the struggle against racial exclusion, World War II incarceration, and the postwar return and development of contemporary Nikkei community. [Formerly AA S 331]

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 332 Japanese American Art and Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of Japanese American art and literature through historical, social and cultural factors that influenced its development. Specific works and artists representing different genres and periods will be analyzed. [Formerly AA S 444]

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 333 Japanese American Identities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Japanese American character, identity, self-image, and behavioral manifestations of the interaction of American and Japanese cultural values. [Formerly AA S 335]

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities

AA S 337 Okinawan American Heritage and Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Summer exchange course in Okinawa. Opportunity to deepen students' knowledge of the Okinawan American cultural heritage and contemporary politics. Topics include history, traditional and contemporary culture, and issues in the homeland.

AA S 350 Filipina/os in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Immigration of the Filipina/os to the United States; various coping mechanisms used in response to adjustment problems; changing structure of the community. [Formerly AA S 456]

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities

AA S 352 Filipina/o American Literature, Art, and Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Critical perspectives on Filipina/o American culture through the examination of diverse genres of art and literature primarily written in English about Filipina/os in the United States, the Philippines, and in diaspora. [Formerly AA S 363]

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice
AA S 353 Filipina/o American Identities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Historical, social, and cultural influences that impact the identities of Filipina/o Americans through a framework of decolonization. [Formerly AA S 355]

Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

AA S 360 Koreans in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Korean Americans in the U.S., examining the historical experience and the sociological, political, and economic implications of being a minority and immigrant in the U.S. [Formerly AA S 380]

Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

AA S 370 Vietnamese in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Origins and causes of Vietnamese movements to the U.S. and nature of Vietnamese experience in America in terms of political, cultural, and economic factors.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

AA S 372 Vietnamese American Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

A critical survey of Vietnamese American literature, taking into account issues of race, class, gender, sexuality, and trauma.

Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities

AA S 373 Vietnamese American Identities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Vietnamese American experience since 1975: psychological adaptation, educational adjustment, socioeconomic integration, and cultural/ethnic maintenance. [Formerly AA S 375]

Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

AA S 377 Cambodians in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examine push-pull factors that led people to flee Cambodia; focus on constraints and strategies (institutional, artistic, community, cultural) deployed by Cambodian Americans to negotiate their status in the US. politically, culturally, economically, and socially. [Formerly AA S 393]

Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

AA S 510 Asian Americans in California (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Asian American contributions to the building of the state from their first arrival in the 19th century to their role within California’s multiracial racial formation and their growing influence on contemporary California. [Formerly AA S 300]

Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Environmental Sustainability
• Social Justice

AA S 512 Asian American Children’s/Adolescent Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Literary works with Asian American themes that are written for youth (preschool to middle school). How Asian Americans are depicted from the 19th century to the present in this literature. [CSL may be available] [Formerly AA S 502]

Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Social Justice
AA S 514 Asian American Community Arts Workshop (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Interdisciplinary collaboration in a variety of Asian American creative art forms through community-based workshops. Classwork, 2 units; activity, 1 unit. [Formerly AA S 304]
Course Attributes:

- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

AA S 516 Asian American Photographic Explorations (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Photography as a personal tool for the exploration, recording, understanding, and expression of Asian American life. Classwork, 2 units; laboratory, 1 unit. [Formerly AA S 308]
Course Attributes:

- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

AA S 540 South Asians in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

History of South Asian immigration to the U.S., and how South Asian Americans negotiate ethnic belonging and national citizenship. Topics include racialization, class divides, gender, inequalities, queer politics, and youth culture. [Formerly AA S 340]
Course Attributes:

- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 541 South Asian Diaspora (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Uses transnational and comparative frameworks to examine South Asian immigration to various countries; how colonialism, nationalism, and the politics of race, gender, class, and sexuality shape diasporic identities and communities. [CSL may be available] [Formerly ETHS 657]
(This course is offered as RRS 657 and AA S 541. Students may not repeat the course under an alternate prefix.)
Course Attributes:

- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 570 Southeast Asians in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Comparative exploration of Southeast Asian America by examining the histories and experiences of Burmese, Cambodian, Filipina/o, Hmong, Indonesian, Lao, Mien, Mong, Vietnamese, and Thai Americans. [Formerly AA S 390]
Course Attributes:

- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 581 Asian American Women (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Social, political, and economic situation of Asian American women within the family, their communities, and the larger society. [Formerly AA S 603]
Course Attributes:

- Am. Ethnic & Racial Minorities
- Social Justice

AA S 582 Asian American Women’s Literature and the Arts (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Works by Asian American women writers and artists; how Asian American women are depicted in literature and the arts. [Formerly AA S 622]
Course Attributes:

- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 584 Asian American Sexualities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to Asian American queer theory and sexuality studies. Examination of how sexuality impacts the lived experience of immigration, race, gender, class and generational difference among Asian Americans.
Course Attributes:

- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice
AA S 585 Asian American Religiosities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Major issues particular to the predicaments of Asian Americans and their religions; interdisciplinary and anchored in critical Asian American Studies perspectives constructed within the context of the intersections of race and religion.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

AA S 587 Asian Americans and Environmental Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the environmental racism issues faced by Asian Americans and how their communities have organized for justice.
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Social Justice

AA S 588 Asian American Media Workshop (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Film and media arts as self-expression, reflection of community, and a tool for activism in the Asian American community. Classwork, 2 units; activity, 1 unit.
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

AA S 591 Asian American Community Health Issues (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of community health concepts and needs specific to the Asian American communities; practical skills in community health issues and service. [Formerly AA S 575]
Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 595 Asian American Communities and Public Policy (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Public policy issues, their impact on and the responses from the Asian American communities; relationship and complexities of local, state, and federal policies facing the Asian American communities. [CSL may be available] [Formerly ETHS 665]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 681 Asian American Community Changes and Development (Units: 3)
Prerequisites: Upper division Asian American Studies majors and minors only; 6 units of AA S GE courses or consent of instructor.
Asian American community origins, changes, economics; trends in residential and community patterns; and effects of immigration and population growth. [CSL may be available] [Formerly AA S 680]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

AA S 684 Asian Americans in Education (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of the historical and contemporary narratives and counter-narratives of Asian Americans in education, development of Asian American Studies, pedagogical issues and interventions that have shaped their identities and communities, and the duality of education as a tool for oppression and as a means toward liberation. (Plus-minus ABC/NC, CR/NC)

AA S 685 Projects in the Teaching of Asian American Studies (Units: 1-4)
Prerequisites: Upper division standing; 3.3 GPA in AA S courses; and consent of instructor. Limited to undergraduate students only.
Academic service learning practicum/internship experience as an undergraduate instructional aide. Participation in the teaching of a regular instructionally-related class. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

AA S 688 Asian American Community Service Internship (Units: 3)
Prerequisite: Upper division standing and consent of instructor.
Supervised fieldwork/service for 100 hours minimum in an approved Asian American organization or agency, plus regular meetings with supervising faculty. May be repeated for a total of 6 units. (CR/NC grading only) [CSL may be available]

AA S 696 Critical Approaches to Asian American Studies (Units: 3)
Prerequisites: Asian American Studies majors and minors with 24 upper division units in AA S classes or consent of instructor.
Study of fundamental tools of critical thinking and theorization through the lens of Asian American Studies. Focus on reading, thinking, and writing critically by exposing topics and theories of Asian and Ethnic Studies. (Plus-minus letter grade only)
AA S 697 Proseminar in Asian American Studies (Units: 3)
Prerequisite: Asian American Studies majors with 24 upper division units in AA S classes or consent of instructor.
Practical application of research methodology in Asian American Studies through critical examination, analysis, and peer critique to develop a publishable product. [CSL may be available]

AA S 699 Independent Study (Units: 1-3)
Prerequisites: Upper division standing with 3.0 GPA and consent of instructor and department chair.
Supervised individual study of a particular issue in Asian American Studies. May be repeated for a total of 6 units.

AA S 710 Critical Approaches to Asian American Studies (Units: 3)
Prerequisite: Classified graduate level standing in Asian American Studies or consent of instructor.
Critical understanding of theory and research methodologies in Asian American Studies; available resources as preparation for graduate-level research. Guidance in literature review and bibliography in the student’s chosen area.

AA S 800 Theory and History in Asian American Studies (Units: 3)
Prerequisite: Graduate standing in Asian American Studies or consent of instructor.
Integration of historical review with contemporary theory relating to Asian Americans.

AA S 810 Seminar: Asian American Immigration (Units: 3)
Prerequisite: Classified graduate level standing in Asian American Studies or consent of instructor.
Theoretical and methodological understanding of Asian immigration to the U.S. Asian Americans within structures of American immigration history.

AA S 822 Seminar: Asian American Literature and Arts (Units: 3)
Prerequisite: Classified graduate level standing in Asian American Studies or consent of instructor.
Intersections of history, gender, culture, and creativity as they pertain to the conception of an Asian American literary aesthetic; Asian American literature within the genre of U.S. literature.

AA S 833 Seminar: Asian American Family and Identity (Units: 3)
Prerequisite: Classified graduate level standing in Asian American Studies or consent of instructor.
Issues concerning Asian Americans in family and group structures.

AA S 865 Asian American Community and Public Policy (Units: 3)
Prerequisite: Classified graduate level standing in Asian American Studies or consent of instructor.
Assessment and critique of policy issues, their impact on, and the responses from, the Asian American community. Relationship and complexities of local, state, and federal policies facing the contemporary Asian American community.

AA S 875 Asian American Community Health Issues (Units: 3)
Prerequisite: Classified graduate level standing in Asian American Studies or consent of instructor.
Major health issues, their impact on and the responses from the Asian American community. Health perspectives and practices affected by the cultural dichotomy between Asia and Euro-America. (AB/NC grading only)

AA S 880 Selected Topics in Asian American Studies (Units: 3)
Prerequisite: Graduate standing in Ethnic Studies or consent of instructor.
Seminar in selected topics in Asian American Studies. May be repeated as topics vary.

AA S 884 Critical Asian American Educational Experience and Pedagogy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Historical narratives and counter-narratives of Asian Americans and education; the development of Asian American Studies; pedagogical issues and interventions that have shaped Asian American identities and communities. (Plus-minus AB/NC grading only; RP allowed)

AA S 895 Field Study in Asian American Studies (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
An alternate culminating study in fulfillment of the requirement for the master’s degree; student develops a project under advisement and direction of graduate adviser. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

AA S 896 Directed Reading in Asian American Studies (Units: 3)
Prerequisite: Consent of instructor and graduate adviser.
Directed reading in one specific area of Asian American studies based upon a standing bibliography or reading list, in consultation and under the supervision of a specialist in that field. May be repeated for a total of 6 units.

AA S 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

AA S 899 Independent Study (Units: 3)
Prerequisite: Consent of instructor and graduate adviser.
Plan, develop, and complete a project under the direction of a supervising faculty member who is a specialist in that field.
Astronomy (ASTR)

ASTR 115 Introduction to Astronomy (Units: 3)
Designed for non-science majors (majors should take ASTR 300). Stonehenge; solar system; sun, stars and stellar evolution, pulsars; black holes; nebulae; galaxies, quasars, big bang, and expanding universe; search for extraterrestrial life. Opportunity for telescopic observation.
Course Attributes:
  • B1: Physical Science

ASTR 116 Astronomy Laboratory (Unit: 1)
Prerequisite: ASTR 115 (may be taken concurrently).
Fundamentals of astronomical observation, including optics and spectroscopy. Planetarium exploration of the stars, sun, and moon. Opportunity for telescopic observation.
Course Attributes:
  • B3: Lab Science

ASTR 120 Introduction to Astrobiology: Life in the Universe (Units: 3)
Prerequisite: Completion of ELM requirement.
A scientifically quantitative and rigorous examination of topics and processes in astronomy, geology, and biology that bear on the possible formation and evolution of life on other planets. Motivated by the discovery of exoplanets and life in extreme environments.

ASTR 300 Stars, Planets, and the Milky Way (Units: 3)
Prerequisite: PHYS 220 or PHYS 111 with a grade of C- or better.
Quantitative study of stars, stellar evolution, and the Milky Way; emphasis on the observational basis of our knowledge of the Galaxy's structure and contents. Application of Newton's laws to exoplanets, determination of stellar masses, and evidence for dark matter. (Plus-minus letter grade only)

ASTR 301 Observational Astronomy Laboratory (Units: 2)
Prerequisites: ASTR 115 or ASTR 300, PHYS 220 or PHYS 111, with grades of C- or better.
Principles and practices of astronomical observation including telescope and detector design and operation; coordinate and magnitude systems; collection, analysis, and presentation of astronomical data.

ASTR 340GW The Big Bang - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C or better, PHYS 320 or equivalent with a grade of C- or better.
Introduction to cosmology, from earlier human conceptions of the universe, through the hot big bang and inflation; early universe, nucleosynthesis, dark matter, dark energy, photon, and neutrino backgrounds, and observational tests of cosmology. (ABC/NC grading only)
(This course is offered as ASTR 340GW and PHYS 340GW. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • Graduation Writing Assessment

ASTR 341 Planetarium Training (Unit: 1)
Prerequisites: ASTR 115, ASTR 116, and consent of instructor.
Planetarium operation, understanding of night sky. Speaking and writing for public and education programs. Laboratory.

ASTR 400 Stellar Astrophysics (Units: 3)
Prerequisites: CSC 309, MATH 245 or MATH 376, PHYS 320, all with grades of C- or better.
Introduction to stellar astrophysics: the birth, life, and death of stars; stellar atmospheres and spectra; stellar interiors; energy generation and transport; star formation; stellar evolution and death; the Solar Cycle and the Sun-Earth connection.
(Do not pair with ASTR 400.)

ASTR 405 Exoplanetary Science (Units: 3)
Prerequisites: ASTR 115, PHYS 220, PHYS 330, or consent of instructor.
Study of extra-solar planets including history, detection methods, planet formation, and exoplanetary atmospheres. Exploration of statistics of exoplanetary systems, habitability, and placing the Solar System in a larger context.

ASTR 470 Observational Techniques in Astronomy (Units: 3)
Prerequisites: ASTR 300, ASTR 301 recommended, CSC 309 strongly recommended, all with grades of C- or better.
Astronomical instrumentation and data analysis; statistical analysis, CCD photometry, spectroscopy, image processing, instrument design. Classwork, 2 unit; laboratory, 1 unit.
[Formerly paired with ASTR 770. Students who complete the course at one level may not repeat the course at the other level]

ASTR 498 Astronomy Research Literature (Units: 2)
Prerequisites: ASTR 300, PHYS 320, with grades of C- or better, or consent of instructor.
Critical reading and analysis of current literature in astronomy and astrophysics. Culminating experience for undergraduates.
(Do not pair with ASTR 498.)

ASTR 685 Projects in the Teaching of Astronomy (Unit: 1)
Prerequisite: ASTR 301 or ASTR 470 with a grade of B or better and consent of instructor.
Methods for effective student teaching in the SF State Observatory and/ or Planetarium. Leading of Observatory Open Nights; development and/or presentation of Planetarium shows. May be repeated for a total of 3 units. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

ASTR 697 Senior Project (Units: 1-3)
Prerequisites: Senior standing; ASTR 470 with a grade of C- or better.
Culminating experience for the B.S. in Physics: Concentration in Astrophysics. Observational or theoretical projects under the direction of department faculty. Student must submit a written report of work accomplished. May be repeated for a total of 6 units.

ASTR 699 Independent Study (Units: 1-3)
Prerequisites: Approval of department and consent of instructor; for advanced students majoring or minoring in astronomy or astrophysics.
Special study in the laboratory, field, or library under the direction of a member of the astronomy faculty. The student must present a written report of the work accomplished to the faculty and to the department. May be repeated for a maximum of 12 units.
ASTR 700 Stellar Astrophysics (Units: 3)
Prerequisites: CSC 309, MATH 245 or MATH 376, PHYS 320, all with grades of C- or better.

Introduction to stellar astrophysics: the birth, life, and death of stars; stellar atmospheres and spectra; stellar interiors; energy generation and transport; star formation; stellar evolution and death; the Solar Cycle and the Sun-Earth connection.
(STAR 700/ASTR 400 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ASTR 722 Radiative Processes and Gas Dynamics in Astrophysics (Units: 3)
Prerequisites: Graduate standing; ASTR 400, PHYS 370, PHYS 430, PHYS 460, or equivalents; PHYS 785 recommended.

Radiative transfer; bremsstrahlung, Compton scattering, and synchrotron radiation; fluid dynamics and astrophysical shocks. Applications may include accretion, star formation, galaxy formation, star and galaxy clusters, active galactic nuclei, jets, and cosmic ray acceleration.

ASTR 742 Galaxies and Cosmology (Units: 3)
Prerequisites: ASTR 300, PHYS 370, PHYS 430, or equivalents, ASTR 400 or equivalent recommended.

Formation and evolution of galaxies and large-scale structure. Models of hierarchical structure formation in a universe dominated by dark matter. Observational constraints from the discovery of the expansion of the universe to ongoing experiments probing the nature of dark energy.

ASTR 770 Observational Techniques in Astronomy Research (Units: 3)
Prerequisites: CSC 309 or equivalent with a grade of B- or better, ASTR 400 or ASTR 700 or equivalent.

Astronomical photometry, spectroscopy, and astrometry in the research context. Statistical analysis, observational research program design, proposal writing. [Formerly paired with ASTR 470. May not repeat the course at a different level.] Classwork, 2 unit; laboratory, 1 unit. (Plus-minus letter grade only)

ASTR 798 Astronomy Research Literature (Units: 2)
Prerequisites: ASTR 300, PHYS 320, with grades of C- or better, or consent of instructor.

Critical reading and analysis of current literature in astronomy and astrophysics. Culminating experience for undergraduates.
(STAR 798/ASTR 498 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Athletics (ATHL)

ATHL 240 Off Season Conditioning (Units: 2)
Conditioning for men's and women's basketball, men's baseball, men's and women's cross-country, men's and women's soccer, women's softball, men's and women's swimming, women's tennis, women's indoor track and field, men's and women's track and field, women's volleyball, men's wrestling. No more than 6 units of off-season conditioning credit is allowed toward graduation requirements.

ATHL 250 Men's Intercollegiate Basketball (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 252 Women's Intercollegiate Basketball (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 254 Women's Intercollegiate Cross-country (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 256 Women's Intercollegiate Soccer (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 258 Women's Intercollegiate Softball (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 268 Women's Intercollegiate Volleyball (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 271 Men's Intercollegiate Baseball (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 275 Men's Intercollegiate Cross-country (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 278 Men's Intercollegiate Soccer (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 283 Men's Intercollegiate Wrestling (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.

ATHL 292 Women's Intercollegiate Track and Field (Units: 2)
No more than 6 units of intercollegiate credit is allowed toward graduation requirements.
Biology (BIOL)

BIOL 100 Human Biology (Units: 3)
Not intended for biology majors.
Course Attributes:
• E1: Lifelong Learning Develop
• B2: Life Science
• Social Justice

BIOL 101 Human Biology Laboratory (Unit: 1)
Prerequisite: BIOL 100.
Laboratory exercises demonstrating scientific processes, including the scientific method, analysis of data, and drawing appropriate conclusions. Extra fee required.
Course Attributes:
• B3: Lab Science

BIOL 150 The World of Plants (Units: 3)
Intended for non-biology majors.
World of plants, their place in nature, and the relation to humans. Growing plants, field observations, and studies of the economic uses of plants. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required.
Course Attributes:
• B2: Life Science
• B3: Lab Science
• Environmental Sustainability

BIOL 160 Marine Biology (Units: 3)
Introduction to the marine environment including oceanic, intertidal, and near shore communities of plants, animals, and microbes. Emphasis is on marine biological and chemical processes and environmental issues both locally and globally.
Course Attributes:
• B2: Life Science
• Environmental Sustainability

BIOL 170 Animal Diversity (Units: 3)
Intended for non-biology majors.
Describes the diversity of animal life and provides an overview of basic concepts of evolution, the fossil record, physiology, behavior, ecology, geographical distribution, and issues in the conservation of biodiversity.
Course Attributes:
• B2: Life Science
• Environmental Sustainability

BIOL 171 Animal Diversity Laboratory (Unit: 1)
Prerequisite: BIOL 170 (may be taken concurrently).
Examination of photographic specimens of animal species, their habitats, and their anatomy. Computer exercises to illustrate evolutionary, ecological, and physiological principles. Extra fee required.

BIOL 176 Science and Politics of Stem Cell Biology (Units: 3)
Not open to biology majors.
Foundation for understanding concepts in stem cell biology, social, and political issues in stem cell research and regenerative medicine.
Course Attributes:
• B2: Life Science
• Am. Ethnic & Racial Minorities
• Social Justice

BIOL 210 General Microbiology and Public Health (Units: 3)
Intended for non-biology majors.
Basic concepts of microbiology; practical applications to medicine, public health, and the environment.

BIOL 211 General Microbiology and Public Health Laboratory (Unit: 1)
Prerequisite: BIOL 210 (may be taken concurrently). Intended for non-biology majors.
Laboratory techniques in isolation, enumeration, and identification of microorganisms. Extra fee required.

BIOL 212 Principles of Human Physiology (Units: 3)
Prerequisites: CHEM 101 or CHEM 115, BIOL 100 and BIOL 101 or BIOL 210, with grades of C or better. Intended for non-majors.
Physiology of human organ systems and principles of homeostasis.
[Formerly BIOL 610]

BIOL 213 Principles of Human Physiology Laboratory (Unit: 1)
Prerequisite: BIOL 212 (may be taken concurrently).
Laboratory exercises in mammalian physiology. To accompany or follow BIOL 212. Extra lab fee required. [Formerly BIOL 611]

BIOL 220 Principles of Human Anatomy (Units: 4)
Prerequisites: BIOL 100 and BIOL 101, or BIOL 212 and BIOL 213.
Study of the gross anatomy of the human body; body systems involving gross structure and history; computerized virtual anatomy lab experience supplemented with enhanced skeletal and specimen study and cadaver visits. (Plus-minus letter grade only)

BIOL 230 Introductory Biology I (Units: 5)
Prerequisites: Restricted to majors and minors in biology and biochemistry, majors in kinesiology, and majors in environmental studies under the natural resources management and conservation concentration B.S. program.
Fundamentals of biology: chemical basis of life, cell structure, bioenergetics, plant and animal physiology, and genetics. Classwork, 3 units; laboratory, 2 units. Extra fee required.

BIOL 240 Introductory Biology II (Units: 5)
Prerequisite: BIOL 230 with a grade of C- or better.
Fundamentals of biology: gene expression, development, evolution, ecology, and the diversity of microbes, plants, and animals. Classwork, 4 units; laboratory, 1 unit. Extra fee required.
BIOL 300 Nature Study (Units: 3)
Prerequisite: One course in college biology. Intended for non-biology majors.
Identification, structure, adaptation, life history, habits, habitat, economic status, conservation of common plants and animals. Two all-day field trips scheduled on two separate weekends. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required.
Course Attributes:
• UD-B: Physical Life Science
• Environmental Sustainability

BIOL 310 Biology for Today's World (Units: 3)
Prerequisite: College course in biology.
Course Attributes:
• UD-B: Physical Life Science
• Environmental Sustainability

BIOL 313 Principles of Ecology (Units: 3)
Prerequisite: One course in college biology or an environmentally-oriented subject. Intended for non-majors.
Ecological principles and methods. Introduction to population, community, and ecosystem ecology. Trips to various habitats. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required.

BIOL 317 Ecology of California (Units: 3)
Prerequisite: College course in biology.
Examines ecology, natural history of California, and impact humans have on the environment in a perceptual and scientific content. Focus on principal processes underlying the evolution/diversity of California's terrestrial/aquatic flora/fauna.

BIOL 318 Our Endangered Planet (Units: 3)
Prerequisite: One course in college biology. Intended for non-majors.
The effect of humans on the ecology of our environment. Species extinctions, the role of genetics, nature reserves, biology of small populations, and restoration ecology.
Course Attributes:
• E1: Lifelong Learning Develop
• UD-B: Physical Life Science
• Am. Ethnic & Racial Minorities
• Environmental Sustainability
• Global Perspectives

BIOL 322 Human Sexuality: Integrative Science (Units: 3)
Prerequisite: BIOL 100 or equivalent or consent of instructor.
Presents basic scientific foundations of human sexuality. Explores the symbiotic relationships between biology and society throughout the life cycle. Discusses the challenges associated with human sexuality and the tools for dealing with them.

BIOL 326 Disease! (Units: 3)
Prerequisite: BIOL 100 or equivalent or consent of instructor. Intended for non-majors.
Origin and natural history of selected infectious and non-infectious human diseases including causal agents, mechanisms, and historical impact. Factors involved in the incidence and distribution of disease.
Course Attributes:
• UD-B: Physical Life Science
• Global Perspectives
• Social Justice

BIOL 327 AIDS: Biology of the Modern Epidemic (Units: 3)
Prerequisite: One course in college biology. Intended for biology majors and non-majors.
Modern epidemic of AIDS is viewed from biological and social perspectives: virology, epidemiology, the immune system, disease states, diagnosis, treatment, prevention, public health issues, sexuality, response of the scientific community, comparison with other historical epidemics.
Course Attributes:
• UD-B: Physical Life Science
• Global Perspectives

BIOL 328 Human Anatomy (Units: 4)
Prerequisites: Restricted to sophomore standing or above with a major in biology, biochemistry, chemistry, clinical science, or kinesiology, BIOL 230 with a grade of C- or better, or consent of instructor.
Gross structures of the human body. Classwork, 3 units; laboratory, 1 unit. Extra fee required.

BIOL 330 Human Sexuality (Units: 3)
Prerequisite: One course in college biology or consent of instructor. Intended for B.A. in General Biology majors and non-majors.
Development, structure, function, and dysfunction of reproductive and sexual systems in humans, physiology of sexual response, variations in sexual expression, law, birth control and abortion, sexual health, sexual motivation, love, and sexual values.
Course Attributes:
• E1: Lifelong Learning Develop
• UD-B: Physical Life Science

BIOL 332 Health Disparities in Cancer (Units: 3)
Prerequisite for BIOL 832: Graduate standing or consent of instructor. Prerequisites for BIOL 332: BIOL 230, BIOL 240, BIOL 355.
Major determinants of health disparities in cancer including ethnic differences in biology and prevention and treatment of cancer. Strategies to overcome these disparities through research, health education, outreach, advocacy, and policy changes.
(BIOL 832/BIOL 332 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice
BIOL 337 Evolution (Units: 3)
Prerequisites: BIOL 230, BIOL 240, BIOL 355. Intended for biology majors and non-majors.

The principles of evolutionary biology, concentrating on basic population genetic mechanisms and methods of analysis.

BIOL 344GW Research Skills - GWAR (Units: 3)
Prerequisite for BIOL 844: Graduate standing or consent of instructor.
Prerequisites for BIOL 344GW: ENG 214 or equivalent with a grade of credit or C- or better, BIOL 230, BIOL 240, and consent of instructor.

Practical skills for successfully conducting undergraduate research. Focus on experimental design, critical review of literature, effective oral and written scientific presentation, and development of research plan. (Plus/minus ABC/NC)
(BIOL 844/BIOL 344GW is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:

• Graduation Writing Assessment

BIOL 349 Bioethics (Units: 3)
Prerequisite for BIOL 849: Graduate standing or consent of instructor.
Prerequisite for BIOL 349: Upper division standing.

Biomedical ethics: experiments on humans and laboratory animals, genetic engineering, in vitro fertilization, fetal research, abortion, the health care system, organ transplants, death and dying. (BIOL 849/BIOL 349 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:

• UD-B: Physical Life Science
• Social Justice

BIOL 350 Cell Biology (Units: 3)
Prerequisites: Restricted to upper division standing; biology and biochemistry majors; BIOL 230, BIOL 240, CHEM 130 with a grade of C- or better.

Cell structure and function, extracellular matrix interactions, signal transduction, and regulatory mechanisms in cell growth and differentiation.

BIOL 351GW Experiments in Cell and Molecular Biology - GWAR (Units: 4)
Prerequisites: Upper division standing; restricted to Biology and Biochemistry majors; ENG 214 or equivalent with a grade of CR or C- or better, BIOL 350, BIOL 355.

Experiments introducing laboratory techniques: microscopy, cytochemistry, spectrophotometric quantitation of macro-molecules, organelle isolation, animal cell culture, gene expression, protein analysis, recombinant DNA techniques. Classwork, 2 units; laboratory, 2 units. Extra fee required. (Plus/minus ABC/NC)
Course Attributes:

• Graduation Writing Assessment

BIOL 355 Genetics (Units: 3)
Prerequisites: Restricted to upper division standing; Biology and Biochemistry majors; BIOL 230, BIOL 240, CHEM 130 with a grade of C- or better.

Viral, prokaryotic, and eukaryotic genetics. Population, human, and molecular genetics.

BIOL 356 Honors Genetics (Units: 2)
Prerequisite: BIOL 355 with a grade of B or better. Intended for biology majors.

Advanced topics, new ideas, unsolved problems, reading of original research, and review of articles in genetics: Mendelian, molecular, and population. (Plus-minus letter grade only)

BIOL 357 Molecular Genetics (Units: 3)
Prerequisite: BIOL 356 or equivalent with a grade of C- or better. Intended for Biology majors.

Current ideas in molecular biology including the transfer and expression of genetic information, interaction and hybridization of genes, molecular mutagens, and molecular evolution. Ethical questions.

BIOL 358 Forensic Genetics: Math Matters (Units: 4)
Prerequisites: Restricted to sophomore, junior, or senior students in Biology, Chemistry, Mathematics, and Computer Science programs; BIOL 230 with a grade of C- or better, MATH 199, or consent of instructor.

Statistical forensic genetics with a focus on social impact; statistical exploration and analyses in R programming language; original scientific research project; critical analysis of forensics in the media; forensic genetics policy proposal project. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter only)

BIOL 380 Evolutionary Developmental Biology (Units: 3)
Prerequisites: BIOL 230, BIOL 240 with grades of C- or better, BIOL 355 and BIOL 337 are highly recommended. Intended for Biology majors.

Examines embryogenesis in a comparative format to understand the diversity and evolution of developmental mechanisms from primitive multicellular organisms to mammals. (Plus-minus letter grade only)

BIOL 382 Developmental Biology (Units: 3)
Prerequisites for BIOL 782: Graduate standing; BIOL 350, BIOL 355 or equivalents with grades of C- or better; or consent of instructor.
Prerequisites for BIOL 382: BIOL 350, BIOL 355 with grades of C- or better. Intended for Biology and Biochemistry majors.

Early embryonic development: exploration of the molecular genetic basis for tissue differentiation. Gene regulation, chromatin, sex determination, oncogenesis, aging, and pattern formation. Extra fee required. (BIOL 782/BIOL 382 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 391 Microscopy and Photomicrography (Units: 2)
Prerequisite: One course in college physics or consent of instructor. Intended for upper division Biology majors.

The use of the microscope with brightfield, darkfield, phase contrast, and fluorescent optics. Principles of photomicrography. Classwork, 1 unit; laboratory, 1 unit. Extra fee required.
Biology (BIOL)  

**BIOL 401 General Microbiology (Units: 3)**  
Prerequisites: BIOL 230, BIOL 240, CHEM 233 with a grade of C- or better. Intended for Biology and Biochemistry majors.  
Morphology, physiology, genetics, molecular biology, evolution, and taxonomy of microorganisms; bacteria and viruses; importance of microbes in biotechnology, ecology, and public health.

**BIOL 402GW General Microbiology Laboratory - GWAR (Units: 3)**  
Prerequisites: Restricted to Biology majors; ENG 214 with a grade of C- or better; BIOL 401 (may be taken concurrently).
Laboratory techniques in the isolation, cultivation, and identification of microbes, especially bacteria; microbial properties including nutrition, gene transfer, enzyme induction, and viral replication. Composition, 1 unit; laboratory, 2 units. Extra fee required. (Plus/minus ABC/NC  
Course Attributes:
- Graduation Writing Assessment

**BIOL 411 Environmental Microbiology (Units: 3)**  
Prerequisites: BIOL 401, BIOL 402GW, BIOL 355, CHEM 340 or CHEM 349. Intended for Biology majors.
Study of microbes and microbial communities using molecular and genomic approaches; primary research data includes novel microbial genomes and metagenomes. (Plus-minus letter grade only)

**BIOL 420 General Virology (Units: 3)**  
Prerequisites: BIOL 401, BIOL 402GW with a grade of C- or better, or consent of instructor. Intended for biology majors.
Molecular aspects of virus structure, genetics, reproduction, and infection. Bacterial, animal, and plant viruses. (Plus-minus letter grade only)

**BIOL 425 Emerging Diseases (Units: 3)**  
Prerequisites: BIOL 230, BIOL 240, BIOL 355 or BIOL 401 or BIOL 350, CHEM 130.
Biology of the emerging diseases that threaten humans and wildlife. The molecular biology, genetics, epidemiology, ecology, and economic impact of emerging viruses.

**BIOL 430 Medical Microbiology (Units: 3)**  
Prerequisites: BIOL 401 with a grade of C or better, consent of instructor. Preference to graduating Biology seniors and majors requiring this course. Principles of infection, immunity, and characterization of medically important microbial agents.

**BIOL 431 Medical Microbiology Laboratory (Units: 2)**  
Prerequisites: BIOL 401, BIOL 402GW with a grade of C- or better, BIOL 430 (may be taken concurrently), consent of instructor. Enrollment priority for B.S. Biology majors.
Basic principles and current standard diagnostic procedures in medical microbiology. Classwork, 1 unit; laboratory, 1 unit. (Plus-minus letter grade only)

**BIOL 435 Immunology (Units: 3)**  
Prerequisite: BIOL 350 or BIOL 401. Intended for biology majors.

**BIOL 436 Immunology Laboratory (Units: 2)**  
Prerequisites: BIOL 402GW or equivalent; concurrent enrollment in BIOL 435.
Laboratory illustrating antibody-antigen interactions, the cellular basis of immune responses, and the applications of immune and serological reactions. Extra fee required.

**BIOL 440 Ethical Issues in Science and Technology (Units: 3)**  
Prerequisites: Upper division standing; ENG 214 or equivalent.
Ethical dimensions of science and technology. Conceptual and theoretical frameworks from the humanities and the life sciences. (This course is offered as BIOL 440 and ENGR 440. Students may not repeat the course under an alternate prefix.)

**BIOL 442 Microbial Physiology (Units: 3)**  
Prerequisites: BIOL 401, BIOL 402GW with a grade of C- or better, CHEM 349 or equivalent. Intended for Biology majors.
Function, biosynthesis, structure, and chemistry of cells and viruses; transport, chemotaxis, and energy metabolism; the regulation of growth rate and growth efficiency; mechanisms of viral and microbial differentiation.

**BIOL 443 Microbial Physiology Laboratory (Units: 2)**  
Prerequisite: BIOL 442 (may be taken concurrently). Intended for Biology majors.
Experiments in the physiology and metabolism of protists and bacteria: growth studies, cell fractionation procedures, enzyme preparations and assays, and analyses of cellular molecules; analytical instrumentation and statistical techniques. Extra fee required.

**BIOL 446 Microbial Genomics (Units: 4)**  
Prerequisites: BIOL 401, BIOL 402GW, BIOL 355, consent of instructor.
Techniques in comparative microbial genomics, analyzing and annotating a novel microbial genome as a class project. (Plus-minus letter grade only)

**BIOL 453 General Parasitology (Units: 3)**  
Prerequisites: BIOL 230, BIOL 240, BIOL 355. Intended for Biology majors.
Biology of animal parasites: impact of parasitic infection on human health, culture, and socio-economic welfare; control and prevention; parasite structure/function; cellular, immunological, biochemical, and molecular parasitology.

**BIOL 454 Parasitology Laboratory (Unit: 1)**  
Prerequisite: BIOL 453 (may be taken concurrently).
Methods and techniques in the examination, preparation, recognition, and identification of protozoan and metazoan parasites of animal hosts; human parasites with orientation toward clinical science. Extra fee required.

**BIOL 458 Biometry (Units: 4)**  
Prerequisite: One course in college biology. Intended for Biology majors.
Biological measurements, experimental design, data analysis, statistical methods as applied to biological problems, methods of data resolution and presentation. Classwork, 3 units; laboratory, 1 unit. Extra fee required.
Biol 460 General Entomology (Units: 4)
Prerequisites: BIOL 230, BIOL 240, or consent of instructor. Intended for Biology majors.

The insects and their close relatives; physiology; external and internal structures; life cycles; classification of insects to order; ecology in desert, field, forest, and aquatic habitats; economic and medical importance of orders. Classwork, 2 units; laboratory, 1 unit; fieldwork, 1 unit. Extra fee required.

Biol 461 Insect Taxonomy (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Classification of insects and their close relatives to family; taxonomic categories and procedures. Classwork, 2 units; laboratory, 1 unit; fieldwork, 1 unit. Extra fee required.

Biol 464 Medical Entomology (Units: 3)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Terrestrial arthropods and how they relate to human health. Arthropod-human interactions: entomophobia, allergy, venoms, parasitism, body infestations, disease vectors, epidemiology; major arthropod borne diseases and their impact on humans and society.

Biol 470 Natural History of Vertebrates (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Structure, behavior, and distribution of amphibians, reptiles, birds and mammals, especially those of Central California. One all-day field trip required. Classwork, 2 units; laboratory, 1 unit; fieldwork, 1 unit. Extra fee required.

Biol 475GW Herpetology - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of CR or C- or better, BIOL 230, BIOL 240, or consent of instructor. Intended for Biology majors.

Evolution, classification, and distribution of amphibians and reptiles. The ecology and behavior of California species. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required. (Plus/minus ABC/NC)

Course Attributes:

- Graduation Writing Assessment

Biol 478GW Ornithology - GWAR (Units: 4)
Prerequisites: ENG 214 with a grade of C- or better, BIOL 230, BIOL 240. Intended for Biology majors.

Anatomy, physiology, behavior, distribution, classification, and evolution of birds; visits to the San Francisco Zoo, private aviaries and museums. Classwork, 2 units; laboratory, 1 unit; fieldwork, 1 unit. One weekend field trip required. Extra fee required. (Plus/minus ABC/NC)

Course Attributes:

- Graduation Writing Assessment

Biol 482 Ecology (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Interrelationships between organisms and their environment, studied at the individual, population, community, and ecosystem levels. Field trips to various environments. Classwork, 3 units; laboratory and fieldwork, 1 unit. Extra fee required.

Biol 490 Ecology of Infectious Diseases (Units: 4)
Prerequisites: BIOL 230, BIOL 240, with grades of C- or better.

Examination of ecological and evolutionary processes that govern the transmission of pathogens in animal and plant systems including factors that lead to disease emergence, the impact of diseases on host populations, and theoretical foundations of disease ecology. Classwork, 3 units; activity, 1 unit.

Biol 492 Comparative Anatomy of Vertebrates (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Organ systems of selected vertebrate types. Classwork, 2 units; laboratory, 2 units. Extra fee required.

Biol 500 Evolution and Diversity of Plants (Units: 4)
Prerequisites: BIOL 230, BIOL 240.

Comparative biology and phylogeny of the major lineages of plants. Evolution and diversification of vegetative and reproductive structures, life histories, and ecological adaptations. Classwork, 2 units; laboratory, 2 units. Extra fee required.

Biol 502 Biology of the Algae (Units: 3)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Collection, preservation, identification, and culturing of marine and freshwater algae. Comparative studies of morphology, life history, and ecology. Field trips. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

(BIOL 702/BIOL 502 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Biol 504 Biology of the Fungi (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Groups of fungi including their classification, life cycles, morphology and development, and economic significance. Classwork, 2 units; laboratory, 1 unit; fieldwork, 1 unit. Extra fee required.

Biol 505 Comparative Anatomy of Vascular Plants (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Plant cells and tissues, their structure, development, and organization into vegetative and reproductive structures; evolutionary and ecological interpretation of tissues of vascular plants. Classwork, 2 units; laboratory, 2 units. Extra fee required.

Biol 508 Plants and Human Affairs (Units: 3)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Plants useful or harmful to humans; origins and history, botanical relationships, chemical constituents that make them economically important, and their roles in literate and preliterate cultures. Classwork, 2 units; laboratory, 1 unit.

Biol 514 Plant Taxonomy (Units: 5)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Principles of plant taxonomy including classification systems and phylogenetic relationships within the flowering plants; practice in identification and collecting. Classwork, 2 units; laboratory and fieldwork, 3 units.

(BIOL 814/BIOL 514 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Biology (BIOL)

**BIOL 525 Plant Physiology (Units: 3)**
Prerequisites: BIOL 230, BIOL 240, CHEM 130. Intended for Biology majors.

Plant physiology, photosynthesis, water and mineral uptake and distribution, translocation of organic materials; environmental and internal plant regulatory factors, and their effect on growth and metabolism.

**BIOL 526 Plant Molecular Physiology Laboratory (Units: 2)**
Prerequisites: Restricted to Biology majors; BIOL 230, BIOL 240, CHEM 130.

Molecular, physiological, and biochemical understanding of plant growth and development. Focus on plant development, plant-plant and plant-environment interactions, photosynthesis, water balance, mineral nutrition, gene expression, cell imaging, data analyses and presentations. Extra fee required.

**BIOL 529GW Plant Ecology - GWAR (Units: 4)**
Prerequisites: ENG 214 or equivalent with a grade of C- or better, BIOL 230, BIOL 240. Intended for Biology majors.

Principles of ecology through the study of plants and plant associations. Ecological concepts, biotic-environmental dynamics and relationships, and levels of ecological integration. Biotic provinces and plant associations in California. Classwork, 2 units; laboratory, 1 unit; fieldwork, 1 unit. Extra fee required. (Plus/minus ABC/NC)

**Course Attributes:**
- Graduation Writing Assessment

**BIOL 530 Conservation Biology (Units: 3)**
Prerequisites: BIOL 230, BIOL 240, or consent of instructor. Intended for Biology majors.

Principles of nature conservation, preservation, and management. Theory, laws, and practice of conservation science.

**BIOL 532 Restoration Ecology (Units: 3)**
Prerequisites: BIOL 230, BIOL 240.

Focuses on restoration of degraded habitats, with emphasis on the application of ecological theory to restoration practice. A variety of habitats will be covered, especially those common to the Bay Area.

**BIOL 534 Wetland Ecology (Units: 4)**
Prerequisites: BIOL 230, BIOL 240, or consent of instructor.

Ecology of a variety of wetland types; biotic and abiotic characteristics and processes; conservation, restoration and management. Field trips to wetland habitats and participation in field and/or greenhouse experiments. Classwork, 3 units; laboratory, 1 unit. Extra fee required.

**BIOL 550 Plant and Animal Interactions (Units: 4)**
Prerequisites: BIOL 230, BIOL 240, an upper division course in ecology. Intended for Biology majors.

Interactions between animals and plants, including such general topics as herbivory, seed dispersal and predation, mycorrhizae, mimicry, myrmecochory, and the co-evolutionary processes that lead to such interactions. Classwork, 3 units; laboratory, 1 unit. Extra fee required. (Plus-minus letter grade only)

**BIOL 555 Marine Invertebrate Zoology (Units: 4)**
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Comparative laboratory and field study of local marine invertebrate animals; evolution and functional morphology. Classwork, 2 units; laboratory and fieldwork, 2 units. Extra fee required.

**BIOL 556 Natural History of Marine Invertebrates (Units: 4)**
Prerequisites: BIOL 230, BIOL 240; BIOL 555 recommended.

Investigation of concept of biodiversity using California coastal communities in local intertidal and nearshore habitats as a field laboratory. Field trips required. Classwork, 2 units; laboratory, 2 units. Extra fee required.

**BIOL 570GW Biology of Fishes - GWAR (Units: 4)**
Prerequisites: ENG 214 or equivalent with a grade of CR or C- or better, BIOL 230, BIOL 240, or consent of instructor. Intended for Biology majors.

Morphology, physiology, behavior, ecology, distribution, classification, and evolution of marine and freshwater fishes; California species. Classwork, 2 units; laboratory and fieldwork, 2 units. Two weekend field trips. Extra fee required. (Plus/minus ABC/NC)

**Course Attributes:**
- Graduation Writing Assessment

**BIOL 572 Colloquium in Ecology, Evolution, and Conservation (Units: 2)**
Prerequisite for BIOL 872: Graduate standing.
Prerequisite for BIOL 572: Upper division standing or consent of instructor.

Presentation of student and faculty research, recent journal articles, and presentations by outside speakers. Student speakers receive graduate seminar credit. May be repeated for a total of 8 units. (BIOL 872/BIOL 572 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

**BIOL 575 Fisheries Biology (Units: 3)**
Prerequisite: BIOL 570GW or a course in ecology. Intended for Biology majors.

Principles and practices in fish ecology and population dynamics, fishing methods and economics, and fisheries management. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required.

**BIOL 577 Ecological and Environmental Modeling (Units: 4)**
Prerequisites: BIOL 230, BIOL 240, or a course in ecology, MATH 199, or consent of instructor. Intended for Biology majors.

Theory and practice of mathematical and computer modeling of organisms, ecosystems, and their environment. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)

**BIOL 580 Limnology (Units: 3)**
Prerequisites: BIOL 230, BIOL 240, CHEM 215, CHEM 216. A course in ecology is recommended. Intended for Biology majors.

Physical, chemical, and biological characteristics of inland waters. Individual field projects. Field trips conducted during class time. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required.
Biol 582 Biological Oceanography (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.
Physical characteristics of oceans; biology of plankton and benthos, emphasizing production and food webs; identification, sampling, and productivity measurements of marine organisms. Classwork, 3 units; laboratory and fieldwork, 1 unit. Extra fee required.

Biol 584 Marine Microbial Ecology Laboratory (Unit: 1)
Prerequisite: CHEM 115.
Laboratory section covers methods of measuring microbial rate processes (growth, nutrient uptake, etc.) and assessment of cell concentration in situ; isolation and culture of microbes. Extra fee required.

Biol 585 Marine Ecology (Units: 3)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.
Plant and animal relationships in near-shore marine communities; temperate zone communities of the central California coast.

Biol 586 Marine Ecology Laboratory (Units: 2)
Prerequisites: BIOL 585 (may be taken concurrently).
Laboratory and fieldwork in marine ecology introducing students to sampling methods, laboratory techniques, data collection, and analysis. Fieldwork in a variety of marine field environments. Includes use of primary literature and oral and written presentations. Extra fee required.

Biol 600 Animal Behavior (Units: 3)
Prerequisites: BIOL 230, BIOL 240.
General introduction to animal behavior. Mechanisms of behavior including development, hormones, neural processes, and cognition. Evolutionary approaches including foraging, habitat selection, communication, sexual selection, mating systems, parental care, and social behavior. Extra fee required. (Plus-minus letter grade only)

Biol 607 Conservation and Management of Marine Mammals (Units: 3)
Prerequisites: BIOL 230, BIOL 240, BIOL 355.
Biology and scientific principles involved in the conservation and management of marine mammals. Current regulations and methodologies are critically reviewed and evaluated. Controversies concerning conservation, ecological balance, and specific governmental constraints in the face of a changing environment will be discussed.

Biol 609 Physics in Medicine (Units: 3)
Prerequisites: PHYS 121, BIOL 230, or equivalents, or consent of instructor.
Mechanics, thermodynamics, and electricity applied to mechanical properties of tissues, metabolism, membrane transport, control and regulation of physical parameters. Sonography, electromagnetism and quantum physics applied to medical diagnostic technology and imaging.

Biol 612 Human Physiology (Units: 3)
Prerequisites: BIOL 230, BIOL 240, CHEM 130, PHYS 121. Intended for Biology majors.
Integrative mechanisms; control systems in cardiovascular and respiratory physiology. Circulation; distribution and regulation of body fluids; digestive systems; metabolism.

Biol 613GW Human Physiology Laboratory - GWAR (Units: 3)
Prerequisites: ENG 214 with a grade of C- or better, BIOL 612 or BIOL 630 (may be taken concurrently). Intended for Biology majors.
Experiments in preparation, recording, and analysis of the functioning of human and other vertebrate organ systems and tissues. Classwork, 1 unit; laboratory, 2 units. Extra fee required. (Plus/minus ABC/NC)
Course Attributes:
• Graduation Writing Assessment

Biol 614 Vertebrate Histology (Units: 4)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.
Microscopic anatomy of tissues and organ systems of vertebrates. Classwork, 2 units; laboratory, 2 units. Extra fee required.

Biol 615 Molecular Pathophysiology (Units: 3)
Prerequisites: BIOL 350, BIOL 355, BIOL 612. Intended for Biology majors.
Globally important diseases caused by genetic errors, environmental factors, or parasites. Each disease is studied at the molecular, cellular, and physiological levels.

Biol 616 Cardiorespiratory Physiology (Units: 3)
Prerequisites: BIOL 230, BIOL 240, BIOL 612 or BIOL 630, PHYS 121, or consent of instructor. Intended for Biology majors.
The physiology of the cardiovascular and respiratory systems, and their interrelationship. Organ function in health and disease. (Plus-minus letter grade only)

Biol 617 Environmental Physiology (Units: 3)
Prerequisite: BIOL 612 or BIOL 630. Intended for Biology majors.
The physiological and biochemical mechanisms underlying adaptation of animals to diverse environments. (Plus-minus letter grade only)

Biol 618 Biology of Aging (Units: 3)
Prerequisites: Biology majors and minors only; BIOL 350, BIOL 355, BIOL 212 or BIOL 612.
Biological processes underlying aging. Focus on the molecular mechanisms of aging, including specific animal models of aging, age-related changes in the major physiological systems in humans. (Plus-minus letter grade only)

Biol 619 Pathophysiology (Units: 3)
Prerequisites: Biology majors and minors only; BIOL 212 or BIOL 612.
The processes underlying disease in the major physiological systems. Focus on understanding the relationship between changes at the molecular, cellular and tissue levels and their physiological manifestations at the organ and system levels. (Plus-minus letter grade only)

Biol 620 Endocrinology (Units: 3)
Prerequisites: Restricted to Biology majors and Pre-health certificate students; BIOL 230, BIOL 240.
Biology (BIOL)

BIOL 621 Reproductive Physiology (Units: 3)
Prerequisites: BIOL 230, BIOL 240, BIOL 330, CHEM 130. BIOL 492 or another course in vertebrate anatomy is recommended. Intended for Biology majors.

Reproductive morphology and physiology of vertebrates.

BIOL 622 Hormones and Behavior (Units: 3)
Prerequisites: BIOL 230, BIOL 240, or consent of instructor, a course in physiology or endocrinology strongly recommended. Intended for Biology majors.

Effects that hormones exert on behavior. Hormonal activation and organization of behavior and the nervous system. Actions of hormones compared in humans and in non-human species.

BIOL 623 Pharmacology (Units: 3)
Prerequisites: BIOL 230, BIOL 240 with grades of C- or better, BIOL 612, CHEM 130.

Pharmacology principles, including pharmacokinetics of drug absorption and elimination. Mechanisms of drug action on the body. Commonly used pharmaceutical drugs.

(BIOL 723/BIOL 623 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 625 Hematology (Units: 3)
Prerequisite: One semester of college physiology. Intended for Biology majors.


BIOL 627 Biophysics (Units: 3)
Prerequisites: PHYS 121, CHEM 115, BIOL 230, or equivalents, or consent of instructor.

Physical description of free energies and driving forces, energetic and timescales of biological processes, interactions of biomolecules, diffusion transport and signaling, protein DNA and membrane structure, molecular motors, cooperative binding, membrane potentials and excitability, regulation of gene expression.

BIOL 630 Animal Physiology (Units: 3)
Prerequisites: BIOL 230, BIOL 240, CHEM 130. Intended for Biology majors.

The physiology of animals, including structure, function, and regulation of organ systems. Unifying principles and natural adjustments to stress.

BIOL 631GW Animal Physiology Laboratory - GWAR (Units: 4)
Prerequisite for BIOL 731: BIOL 630 or BIOL 612.
Prerequisites for BIOL 631GW: ENG 214 with a grade of C- or better, BIOL 612 or BIOL 630. Intended for Biology majors.

Approaches to scientific research on the environmental physiology of marine and estuarine organisms, with a focus on metabolic processes. Emphasis on scientific writing and communication. Classwork, 2 units; laboratory 2 units. Extra fee required. (Plus/minus ABC/NC)

(BIOL 731/BIOL 631GW is an undergraduate/graduate level paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Course Attributes:

- Graduation Writing Assessment

BIOL 638 Bioinformatics & Genome Annotation (Units: 4)
Prerequisite for BIOL 738: BIOL 357 or consent of instructor.
Prerequisite for BIOL 638: BIOL 230 or consent of instructor.

Analyze and annotate a different chunk of genomic DNA. Results from this course will be incorporated into peer-reviewed publications, students listed as an author. (Plus-minus letter grade only)

(BIOL 738/BIOL 638 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 640 Cellular Neurosciences (Units: 3)
Prerequisites: BIOL 230, BIOL 240, CHEM 130. PHYS 121. BIOL 350 and BIOL 612 are recommended. Intended for Biology majors.

Cellular and molecular analysis of neurons. Cellular, synaptic, and retinal neurophysiology. Electrical and chemical mechanisms underlying intraneuronal and inter-neuronal signaling.

BIOL 642 Neural Systems Physiology (Units: 3)
Prerequisites: BIOL 328, BIOL 612, BIOL 620, BIOL 630. BIOL 640 is recommended. Intended for Biology majors.

Communication between neural centers controlling sensory and motor systems, homeostasis, learning, thought, and affect. Connectivity, neurophysiological regulation, and neuropathology. (Plus-minus letter grade only)

BIOL 652 Science Education Partners in Biology (Units: 4)
Prerequisites: BIOL 230, BIOL 240, or one upper division biology course and consent of instructor.

Introduction to biology teaching and learning; engage in K-12 classroom teaching; examine understanding of biology, discuss science education literature, and analyze biology lessons and student learning. Classwork, 2 units; fieldwork, 2 units. Extra fee required.

BIOL 694 Cooperative Internship in Biology (Units: 2-4)
Prerequisites: Sophomore standing and above and consent of Biology faculty adviser.

Written and oral report of work performed with an outside agency; requested written report from agency supervisor. Evaluation of work by biology adviser and/or faculty committee. Open to Biology majors. May be repeated for a total of 16 units.

BIOL 699 Independent Study in Biology (Units: 1-3)
Prerequisites: Senior standing in biology and consent of the department and instructor.

Special study in the laboratory, field, or library under the direction of a member of the department. The student must present a written detailed report of the work accomplished to the staff of the department. May be repeated for credit.

BIOL 702 Biology of the Algae (Units: 3)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.

Collection, preservation, identification, and culturing of marine and freshwater algae. Comparative studies of morphology, life history, and ecology. Field trips. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

(BIOL 702/BIOL 502 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
BIOL 708 Scientific Methods for Professional Aquatic Scientists (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Introduction to research tools and approaches used by scientists including: software for data analysis and presentation, using scientific literature, experimental design, writing scientific papers and proposals, professional communication (oral, poster, letter), time and stress management. (Plus-minus letter grading only)

BIOL 710 Advanced Biometry (Units: 3)
Prerequisite: BIOL 458.
Use of computers for critical data evaluation and decision-making. Accessing and using available statistical packages, database management, construction of phylogenetic tree models, and advanced statistical analyses. No prior computer experience required. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

BIOL 711 Immunoassays (Units: 3)
Prerequisites: CHEM 349, BIOL 435 or equivalent (may be taken concurrently).
Principles and applications of antigen-antibody interactions, immunoassay design, and detection systems. Enzyme, luminescent and fluorescent assays, and their successful application in laboratory medicine or biological research are emphasized.

BIOL 714 Biomedical Enzymology (Units: 3)
Prerequisite: CHEM 349 or equivalent.
Fundamental knowledge of enzymes, cofactors, and enzyme kinetics. Laboratory and computer exercises focus on action and kinetics of enzymes commonly used in medical diagnosis and/or biotechnology research. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

BIOL 716 Skills for Scientific Proposal Writing (Units: 3)
Prerequisite: Graduate standing and consent of instructor.
Development of technical writing skills through the process of writing and editing research proposals based on students' own research projects.

BIOL 723 Pharmacology (Units: 3)
Prerequisites: BIOL 230, BIOL 240 with grades of C- or better, BIOL 612, CHEM 130.
Pharmacology principles, including pharmacokinetics of drug absorption and elimination. Mechanisms of drug action on the body. Commonly used pharmaceutical drugs. (BIOL 723/Biol 623 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 731 Animal Physiology Laboratory - GWAR (Units: 4)
Prerequisite for BIOL 731: BIOL 630 or BIOL 612.
Prerequisites for BIOL 631GW: ENG 214 with a grade of C- or better, BIOL 612 or BIOL 630. Intended for Biology majors.
Approaches to scientific research on the environmental physiology of marine and estuarine organisms, with a focus on metabolic processes. Emphasis on scientific writing and communication. Classwork, 2 units; laboratory 2 units. Extra fee required. (Plus/minus ABC/NC) (BIOL 731/Biol 631GW is an undergraduate/graduate level paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Course Attributes:
- Graduation Writing Assessment

BIOL 732 Biology and Chemistry of Signaling Pathways (Units: 3)
Prerequisite: Classified graduate status or consent of instructor.
An interdisciplinary presentation of the mechanisms by which extracellular stimuli trigger intracellular biochemical reactions that lead to alterations in cellular function. (This course is offered as BIOL 732 and CHEM 846. Students may not repeat the course under an alternate prefix.)

BIOL 737 Plant Metabolism (Units: 3)
Prerequisite: BIOL 525 or CHEM 340 or CHEM 349. Intended for Biology and Chemistry majors.
Plant metabolism: photosynthesis, cell wall biosynthesis, nitrogen, and sulfur metabolism, secondary plant products. Common metabolic pathways with an emphasis on functioning and regulation of these pathways in plants.

BIOL 738 Bioinformatics & Genome Annotation (Units: 4)
Prerequisite for BIOL 738: BIOL 357 or consent of instructor. Prerequisite for BIOL 638: BIOL 230 or consent of instructor.
Analyze and annotate a different chunk of genomic DNA. Results from this course will be incorporated into peer-reviewed publications, students listed as an author. (Plus-minus letter grade only) (BIOL 738/Biol 638 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 741 Electron Microscopy (Units: 4)
Prerequisite: Graduate or senior standing, or consent of instructor.
Preparation of biological and inorganic materials for scanning and transmission electron microscopy, x-ray microanalysis, EBSD, CL, operation of the electron microscope(s), and data interpretation. Classwork, 1 unit; laboratory, 3 units. Extra fee required. (This course is offered as BIOL 741, CHEM 741, and ERTH 741. Students may not repeat the course under an alternate prefix.)

BIOL 743 Cell and Molecular Techniques (Units: 3)
Prerequisites: Graduate standing; BIOL 357 (may be taken concurrently), CHEM 340, CHEM 341.
Lecture and discussion of modern techniques and design of strategies used in cell and molecular biology research. Includes discussion of societal issues.

BIOL 750 Science Teaching for Scientists I (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Introduction to practical teaching strategies, science education theory and research, and scientific teaching to SF State graduate student scientists who are teaching science in a variety of contexts. May be repeated for a total of 4 units. (Plus-minus letter grade only) (This course is offered as SCI 750 and BIOL 750. Students may not repeat the course under an alternate prefix.)

BIOL 756 Principles of Human Genetics (Units: 3)
Prerequisite: Upper division genetics course and consent of instructor. Intended for graduate students in Biology and Genetic Counseling.
Inheritance, molecular genetics, cytogenetics, variation, mutation, family history, pedigree analysis, genetic risk calculation, quantitative traits, evolution and population genetics. (Plus-minus letter grade only)
Biology (BIOL)

BIOL 760 Cancer Biology (Units: 3)
Prerequisites: Classified graduate standing; CHEM 340 or CHEM 349, BIOL 350 or BIOL 401, BIOL 357, or consent of instructor.
Molecular and cellular basis of cancer. Emphasis on potential therapeutic targets, including cell cycle regulators, signal transduction mechanisms, cellular differentiation factors, oncogenes, tumor suppressors. (Plus-minus letter grade only)

BIOL 763 Molecular Biology of Cancer (Units: 2)
Prerequisites: Graduate standing, a course in biochemistry.
The biology, diagnosis, and treatment of cancer focuses on how recent advances have been achieved by application of molecular biology principles and techniques. Topics include metastasis, angiogenesis, carcinogenesis, genetics, therapeutics, and potential future advances. (Plus-minus letter grade only)

BIOL 765 Biomedical Immunology Advanced Topics (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Faculty direct and evaluate student presentations of seminars on selected advanced topics in clinical immunology.

BIOL 772 Molecular Methods in Medical Microbiology (Units: 4)
Prerequisites: Graduate standing; biochemistry and microbiology courses with laboratory, or consent of instructor.
Overview of clinically significant microorganisms, emphasizing functional roles of biological macromolecules in pathogenesis and genetic applications. Lab covers basic principles and current molecular techniques used in model microbes. Classwork, 2 units; laboratory, 2 units. Extra fee required.

BIOL 774 Nucleic Acid Probe Methods: Biotechnology Applications (Units: 3)
Prerequisite: Graduate standing in biology or consent of instructor.
Basic concepts and applications of modern nucleic acid technologies in diagnosis, therapeutics, and biotechnology. Classwork; 1 unit; laboratory, 2 units. (Plus-minus letter grade only)

BIOL 775 Biomedical Microbiology Advanced Topics (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Primary scientific articles on important human microbial diseases and a centenary perspective of scientific discovery in microbiology are emphasized. Students are required to participate in article presentations and discussion.

BIOL 781 Biomedical Virology Foundations (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Topic to be specified in Class Schedule. Core lectures with emphasis on virology. May be repeated as topics vary.

BIOL 782 Developmental Biology (Units: 3)
Prerequisites for BIOL 782: Graduate standing; BIOL 350, BIOL 355 or equivalents with grades of C- or better; or consent of instructor.
Prerequisites for BIOL 382: BIOL 350, BIOL 355 with grades of C- or better. Intended for Biology and Biochemistry majors.
Early embryonic development: exploration of the molecular genetic basis for tissue differentiation. Gene regulation, chromatin, sex determination, oncogenesis, aging, and pattern formation. Extra fee required. (BIOL 782/BIOL 382 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 784 Biomedical Virology Applications (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

BIOL 792 Molecular Virology (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Virology laboratory covering the growth and detection of viruses. Techniques include the propagation and titration of viruses in cell culture as well as the detection of viral infections by immunochemical and nucleic acid-based techniques. Classwork, 2 units; laboratory, 2 units.

BIOL 793 Advances in Biomedical Hematology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

BIOL 800 Mushroom Taxonomy (Units: 3)
Prerequisites: Graduate or senior standing; BIOL 504 or equivalent; or consent of instructor.
Morphology, microscopic anatomy, taxonomy; biochemical and cytological aspects, ecology and artificial cultivation of the macroscopic fungi. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required.

BIOL 801 Population Genetics (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Genetic basis of evolution. Effects of mating system, drift, migration, selection on genetic variation. Quantitative genetics, applications of molecular techniques in evolutionary biology. Classwork, 2 units; laboratory, 1 unit. Extra fee required. (Plus-minus letter grade only)

BIOL 802 Advanced Topics in Biotechnology (Units: 2)
Prerequisite: Graduate standing in Biology and consent of instructor.
Examination of the current topics in biotechnology, pharmaceutical, and clinical research industry. May be repeated as topics vary.

BIOL 803 Core Concepts of Biotechnology (Units: 3)
Prerequisite: CHEM 340 or BIOL 355 or BIOL 357, or equivalent background with consent of instructor.
Introductory course for students interested in careers in biotechnology. Core concepts of biotechnology to keep abreast of current trends, biomedical applications, and historical foundations. (Plus-minus letter grade only)

BIOL 804 Life Science Careers (Units: 2)
Prerequisites: Graduate standing in Biology and consent of instructor.
Introduction to career opportunities for biology life science students after graduation, choosing a career, and necessary tools to pursue a chosen field. (CR/NC grading only)

BIOL 805 Evolutionary Genetics (Units: 4)
Prerequisites: Graduate or senior standing; BIOL 355; or consent of instructor.
Principles of evolutionary genetics, including an emphasis on evolutionary quantitative genetics, molecular population genetics, molecular evolution and genomics. Classwork, 2 units; laboratory, 2 units. Extra fee required.
BIOL 814 Plant Taxonomy (Units: 5)
Prerequisites: BIOL 230, BIOL 240. Intended for Biology majors.
Principles of plant taxonomy including classification systems and phylogenetic relationships within the flowering plants; practice in identification and collecting. Classwork, 2 units; laboratory and fieldwork, 3 units. (BIOL 814/BIOL 514 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 815 Advanced Phylogenetic Analysis (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Methods and techniques of phylogenetic inference. Parsimony, maximum likelihood, quantitative phylogenetic analysis, and comparative methods. Molecular data in evolution. Classwork, 3 units; laboratory, 1 unit. Extra fee required. (Plus-minus letter grade only)

BIOL 818 Molecular Techniques in Evolution and Ecology (Units: 4)
Prerequisite: BIOL 355 or equivalent and consent of instructor.
Molecular techniques commonly used in the fields of evolutionary biology and ecology. PCR and direct DNA sequencing. Classwork, 2 units; laboratory, 2 units. Extra fee required.

BIOL 821 Fire Ecology (Units: 3)
Prerequisites: Graduate or senior standing; BIOL 529GW; or consent of instructor.
Role of fire as an environmental factor in the life histories and succession of plants and/or animals. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

BIOL 830 Advanced Conservation Biology (Units: 3)
Prerequisites: Graduate standing; BIOL 530; or consent of instructor.
Theory and practice of nature conservation; traditional resource management; new theory of the conservation of small populations. Classwork, 2 units; laboratory, 1 unit. Extra fee required. (Plus-minus letter grade only)

BIOL 832 Health Disparities in Cancer (Units: 3)
Prerequisite for BIOL 832: Graduate standing or consent of instructor. Prerequisites for BIOL 332: BIOL 230, BIOL 240, BIOL 355.
Major determinants of health disparities in cancer including ethnic differences in biology and prevention and treatment of cancer. Strategies to overcome these disparities through research, health education, outreach, advocacy, and policy changes. (BIOL 832/BIOL 332 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

BIOL 840 Community Ecology (Units: 3)
Prerequisites: Graduate or senior standing in Biology, a course in ecology.
Modern concepts and approaches to natural community structure, organization, and dynamics. Historical and current theoretical models, forces structuring communities, interactions among communities, role of exotic species. (Plus-minus letter grade only)

BIOL 843 Population Biology (Units: 3)
Prerequisites: Graduate or senior standing, a course in genetics, ecology, biometry.
Modern concepts of structure, organization, and evolution of plant and animal populations. Genetical, ecological, evolutionary, and theoretical approaches to the study of populations.

BIOL 844 Research Skills - GWAR (Units: 3)
Prerequisite for BIOL 844: Graduate standing or consent of instructor. Prerequisites for BIOL 344GW: ENG 214 or equivalent with a grade of credit or C- or better; BIOL 230, BIOL 240, and consent of instructor.
Practical skills for successfully conducting undergraduate research. Focus on experimental design, critical review of literature, effective oral and written scientific presentation, and development of research plan. (Plus/minus ABC/NC) (BIOL 844/BIOL 344GW is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
- Graduation Writing Assessment

BIOL 848 Behavioral Ecology (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Evolution of behavior: optimal foraging, predation, sexual selection, social organization, habitat selection, and communication. (Plus-minus letter grade only)

BIOL 849 Bioethics (Units: 3)
Prerequisite for BIOL 849: Graduate standing or consent of instructor. Prerequisite for BIOL 349: Upper division standing.
Biomedical ethics: experiments on humans and laboratory animals, genetic engineering, in vitro fertilization, fetal research, abortion, the health care system, organ transplants, death and dying. (BIOL 849/BIOL 349 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
- UD-B: Physical Life Science
- Social Justice

BIOL 860 Advances in Biology Education Research (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Students will read and present primary research articles, facilitate discussions, write article analyses, and develop a mini-grant proposal on a biology education research question. May be repeated for a total of 4 units.

BIOL 861 Advances in Cell and Molecular Biology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

BIOL 862 Advances in Ecology and Systematic Biology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

BIOL 863 Advances in Marine Biology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.
BIOL 864 Advances in Microbiology (Units: 2)
Prerequisites: Graduate standing and consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

BIOL 865 Advances in Physiology and Behavioral Biology (Units: 2)
Prerequisite: Restricted to graduate students in Biology or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

BIOL 871 Colloquium in Microbiology, Cell and Molecular Biology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Presentation of student and faculty research, recent journal articles, and presentations by outside speakers. Does not fulfill graduate seminar requirement. May be repeated for a total of 4 units. (Plus-minus letter grade only)

BIOL 872 Colloquium in Ecology, Evolution, and Conservation (Units: 2)
Prerequisite for BIOL 872: Graduate standing.
Prerequisite for BIOL 572: Upper division standing or consent of instructor.
Presentation of student and faculty research, recent journal articles, and presentations by outside speakers. Student speakers receive graduate seminar credit. May be repeated for a total of 8 units.
(BIOL 872/BIOL 572 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BIOL 881 Seminar: Cell and Molecular Biology (Unit: 1)
Prerequisites: Graduate standing and consent of instructor.
Topic to be specified in Class Schedule. May be repeated for a total of 4 units when topics vary.

BIOL 883 Seminar in Marine Biology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Seminar on topics in marine biology. Topic to be specified in Class Schedule.

BIOL 890 Cooperative Internship (Units: 2-3)
Prerequisite: Graduate standing.
For students who are conducting cooperative internship and work-related research experience. May be repeated for a total of 6 units.

BIOL 891 Biomedical Research Design (Units: 2)
Prerequisite: Must have fulfilled the GET requirement and have a specific research topic approved by a mentor.
Exercises encompass the elements of biomedical laboratory science research proposals: needs assessment, literature review, clinical significance, feasibility, controls, materials and methods, budget, data presentation, human/animal aspects, record keeping, reference notation, and statistical significance. (Plus-minus letter grade only)

BIOL 895 Research Project (Units: 4)
Prerequisite: BIOL 896, consent of instructor, approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Supervised independent and original laboratory or field investigation. Guidelines available at the biology department office. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by Graduate Studies before registration. (CR/NC grading only)

BIOL 896 Directed Reading (Unit: 1)
Prerequisites: Approval of department; permission is required for concurrent enrollment in BIOL 897 or BIOL 895.
Supervised preparation of the research proposal for a research project or thesis research, and completion of the preliminary oral examination. May not be repeated.

BIOL 897 Research (Units: 1-6)
Prerequisites: Completed undergraduate major in biology and classified status. Independent and original laboratory or field investigation under supervision of a faculty member. May be repeated.

BIOL 898 Master’s Thesis (Units: 4)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) for the Master of Arts in Biology and Culminating Experience (CE) forms by Graduate Studies.
Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Broadcast and Electronic Communication Arts (BECA)

BECA 200 Introduction to Electronic Communication (Units: 3)
Enrollment priority for BECA majors.
Evolution of the major electronic media institutions of radio, television, and cable as social, political, economic, and vocational forces in American society. Impact and development of new electronic communication technologies.

BECA 201 Life on TV: A Critical View (Units: 3)
Elements of basic kinds of television programs: drama, sports, comedy, documentary, and variety; critical criteria for evaluating programs.

Course Attributes:
- C2: Humanities
- Am. Ethnic & Racial Minorities

BECA 230 Audio Production I (Units: 3)
Prerequisites: Restricted to BECA major; consent of department; must be taken concurrently with BECA 231.

Theoretical aspects of sound, acoustics, and audio signal flow in radio, television, and recording operations. Aesthetic aspects of sound mixing in broadcasting applications. Extra fee required.

BECA 231 Audio Laboratory (Unit: 1)
Prerequisites: Restricted to BECA major, consent of department; must be taken concurrently with BECA 230.

Production procedures and student projects utilizing control consoles, turntables, microphones, tape recorders, and editing. Extra fee required.

BECA 235 Digital Media Basics (Units: 3)
Enrollment priority for BECA majors.
Fundamentals of digital communication technologies and their application in audio, radio, television, and interactive media.

Course Attributes:
- C1: Arts

BECA 240 Video Production (Units: 3)
Prerequisites: Restricted to BECA major; consent of department; must be taken concurrently with BECA 241.

Use of television equipment and facilities; camera operations, audio and video control, lighting, tape recorders, graphics, scenery, and portable audio and video production units. Extra fee required.

BECA 241 Video Laboratory (Unit: 1)
Prerequisites: Restricted to BECA major; consent of department; must be taken concurrently with BECA 240. Extra fee required.

BECA 300GW Broadcast and Electronic Communication Arts Research - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better; enrollment priority for BECA majors.

Communication research. Acquiring and evaluating information and organizing the results into written form. Investigation of sources, methods, cataloging, philosophies of media research, and questions of reliability and validity. (ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

BECA 301 Media Literacy in the Electronic Culture (Units: 3)
Prerequisite: Upper division standing.

Examination of electronic media content, effects, influence on individuals and groups. Development of analytical/critical skills necessary to become a discerning user of television, radio, music, Internet. Application of theoretical and media literacy frameworks to development of the Guerrilla Media Project. (Plus-minus letter grade only)

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice

BECA 305 KSFS Radio I (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Production and performance for radio; development of skills used in the daily operation of a radio station: programming, scheduling, and planning.

BECA 310 Radio Production (Units: 3)
Prerequisites: BECA major, BECA 230, BECA 231; and consent of instructor.

Analysis and production of radio programs; experimental approaches designed to explore the potential of radio. Laboratory.

BECA 321 Critical Study of Popular Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Public arts from the standpoint of structures and themes; relationship to social value systems; form, vision, and function in the public arts.

Course Attributes:
- UD-C: Arts and/or Humanities

BECA 324 Law and Regulation of the Electronic Media (Units: 3)
Prerequisites: Junior standing; BECA 200; and consent of instructor.

Enrollment priority for BECA majors.

Legal and regulatory aspects of electronic media: impact of F.C.C. licensing and regulation within the framework of the First Amendment.

BECA 327 Broadcast Industry Symposium (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.

Student participation with American and foreign broadcasters, international concerns, new communication technologies, program exchange, production and script workshops. May be repeated for a total of 4 units. (CR/NC grading only)

BECA 330 Audio Production II (Units: 3)
Prerequisites: Restricted to BECA major; BECA 230, BECA 231, or equivalents; consent of department and instructor.

Radio and television production, in-studio recording on multi-channel recording consoles. Use of board equalization, reverberation systems, graphic equalizers, limiters, and the art of overdubbing. Laboratory.

BECA 335 Audio for Video (Units: 3)
Prerequisites: Restricted to BECA major; BECA 230, BECA 231; consent of department.

Production theory and practice as applied to audio recording for video. Pre-production planning and location/studio recording situations.
BECA 340 Media Aesthetics I (Units: 3)
Prerequisite: Sophomore standing or above or consent of instructor. Enrollment priority for BECA major.
Aesthetic analysis of video, film, and related electronic media based on an examination of fundamental image and sound elements.

BECA 348 Video Editing I (Units: 3)
Prerequisites: BECA 240, BECA 241; consent of department.
Introduction to major aesthetic and technical considerations in video editing, and practical application in electronic media production.

BECA 350 Media Performance I (Units: 3)
Prerequisites: Restricted to BECA major; BECA 240, BECA 241; consent of department.
Performance training for the electronic media; exercises for improving articulation, pronunciation, interpretation, vocal quality, and communicative abilities; the international phonetic alphabet. Laboratory.

BECA 370 Writing for the Electronic Media (Units: 3)
Prerequisites: BECA 300GW, consent of instructor. Enrollment priority for BECA majors.
Writing scripts for video productions, television and radio programs, public service announcements, commercials, and documentaries.

BECA 390 The Age of Information (Units: 3)
Prerequisite: Upper division standing.
Age of information explores the historical, social, political, and personal implications of modern communication technology. Understanding how it contributes to change in our society.

BECA 395 Close up on Electronic Media (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
A close up look at electronic media industries in major media cities including business environments, social and impact, and marketing electronic media content. Includes the creation of a professional persona through development of personal skills. Topic to be specified in Class Schedule. May be repeated for a total of 4 units as topics vary. Only 3 units of this course may count for credit in BECA major. (CR/NC grading only)

BECA 415 Advanced Television Production Workshop (Units: 3)
Prerequisites: BECA 240, BECA 241; consent of department and instructor.
Development and production of Television Center programming for cable or broadcast. May be repeated for a total of 6 units with consent of instructor. [CSL may be available]

BECA 422 Social Aspects of Electronic Media (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Functions, effects, and uses of public media; roles of media in affecting social, cultural, and political values; avenues of freedom and control in media; problems and opportunities presented by evolving media technology.

BECA 423 Economic Aspects of Broadcasting and Electronic Media
(Units: 3)
Prerequisites: Junior standing; BECA 200; consent of instructor. Enrollment priority for BECA majors.
Business practices and interrelationships of broadcast stations, networks, advertising agencies, and cable companies; buying and selling media, programming, promotion, and legal and ethical issues.

BECA 425 Television/Video Program Design (Units: 3)
Prerequisite for BECA 725: BECA 700 or consent of instructor.
Prerequisites for BECA 425: Junior standing; BECA 200; or consent of instructor.
Process of designing educational television series. Pre-production stages of series development.
(BECA 725/BECA 425 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BECA 428 Electronic Media Management (Units: 3)
Prerequisite: Restricted to upper division BECA majors.
Concepts, methods, and current practices in electronic media organization and management. Decision making, implementation approaches, and communication applications for the small electronic media operation. Resource allocation, facility design and operation, project management, operation scheduling, and quality control. (Plus-minus letter grade only)

BECA 430 Advanced Audio Production I (Units: 3)
Prerequisites: Restricted to BECA major; BECA 330; consent of department and instructor.
Audio techniques in the specialized fields of audio recording and sound reinforcement for television, film, and music recording. May be repeated for a total of 9 units. Extra fee required.

BECA 435 Aesthetics of Sound (Units: 3)
Prerequisites for BECA 735: BECA 230, BECA 231 or equivalent, BECA 700 or consent of instructor.
Prerequisites for BECA 435: BECA 230, BECA 231 or equivalent.
Aesthetics of sound and the basic principles involved in theoretical and critical analysis of audio in media, including radio, television, film, music, and other audio-visual communication.
(BECA 735/BECA 435 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BECA 440 Media Aesthetics II (Units: 3)
Prerequisites: Restricted to BECA major; BECA 240, BECA 241, BECA 340, or equivalents; consent of instructor.
Problems in applied aesthetics. Laboratory.

BECA 450 Media Performance II (Units: 3)
Prerequisites: BECA 350, consent of department or instructor.
Development and rehearsal of electronic media presentation and communication skills. Theories of the presentation of self via electronic media. Studio and laboratory practice. Strategies for management of performer, director, and crew relationships.
BECA 460 Introduction to News on Broadcast and Electronic Media (Units: 3)
Prerequisites: Upper division standing, BECA 200, or consent of instructor.

Values, theories, sources, and content of radio and television newscasts. Professional roles, management, and operations of broadcast and cable news at international, national, and local levels.

BECA 462 The Television Documentary in the United States (Units: 3)
Prerequisites: Restricted to BECA major; consent of department.

History and analysis of documentary programming on American broadcast television and cable: terminology, standards, and accepted practices associated with television documentary production in the U.S.

BECA 470 Dramatic Writing for Television and Electronic Media (Units: 3)
Prerequisites: BECA 370, consent of instructor.

Television as a unique medium for drama; limitations and potentialities of the medium in relation to form, style, timing, characterization, and story selection.

BECA 485 Women and Media (Units: 3)
Prerequisite: Upper division standing.

Analytic modes, including feminist, psychoanalytic, and economic criticism, to assess both how women are represented in mass media and the status of women employed in mass media. (This course is offered as BECA 485 and WGS 485. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

BECA 487 Children and Television (Units: 3)
Prerequisite: Upper division standing.

How children use and are affected by mass media, particularly television. Theory and research describing children and television. Role of television in children's development. (This course is offered as BECA 487 and ITEC 487. Students may not repeat the course under an alternate prefix.)

BECA 488 Asian Media (Units: 3)
Prerequisite: Upper division standing.

Critical, theoretical, and cultural analysis of China, India, and Japan. Aesthetics of aural and visual representations in Asian television and cinema productions.

BECA 490 Television and Social Change (Units: 3)
Prerequisite: Upper division standing.

Nature of social change: television's potential--lack of potential--to bring about social change, role of television in achieving that change, and critique of relevant programming intended to effect change. (Plus-minus letter grading only)

BECA 500 International Broadcasting (Units: 3)
Prerequisite: Consent of instructor.

Broadcast systems of the world: developed and developing nations. Programming of many cultures; the role of satellites in promoting exchange of programs. Relationship between governments, societies, and the media. Issues in international communication.

BECA 502 Environmental Communication on the Electronic Media (Units: 3)
Prerequisite: Upper division standing.

Representation of environmental issues in the electronic media, including radio, television, Internet, and CD ROMs. Strategies for using electronic media to communicate environmental topics.

Course Attributes:
- Social Justice

BECA 505 KSFS Radio II (Units: 3)
Prerequisites: BECA 305, consent of instructor.

Students become managers and staff responsible for the daily operation of KSFS Radio. May be repeated for a total of 9 units.

BECA 510 Music Performance Recording and Production (Units: 3)
Prerequisites: Restricted to BECA major; BECA 230, BECA 231; consent of department.

Student teams have responsibility for the production of weekly, on-air, stereo radio concert program featuring major campus concert performances. May be repeated for a total of 9 units.

BECA 515 Television Center Crew (Units: 3)
Prerequisites: BECA major; BECA 240, BECA 241; consent of department.

"Hands-on" experience: camera operator, lighting, technical director, audio technician, videotape recorder, floor director. Complex productions with multiple cameras, sets, and lighting set-up.

BECA 516 Television News Crew (Units: 3)
Prerequisites: Restricted to BECA major; BECA 240, BECA 241.

Production crew for Television Center newscasts; practical experience as director, technical director, floor director, camera operator, audio engineer, and in other production positions.

BECA 523 Electronic Media Distribution and Operations (Units: 3)
Prerequisites: Restricted to BECA major; BECA 200 or consent of instructor.

Factors in day-to-day electronic media operations, program scheduling, syndication, social media use, labor relations, political and legal considerations, station promotion, and advanced distribution systems. Applied practice in distribution and operation of BECA media channels. May be repeated for a total of 6 units.

BECA 530 Advanced Audio Production II (Units: 3)
Prerequisites: Restricted to BECA major; BECA 430; consent of department.

Major audio productions skills through active participation in challenging audio media productions. Audio for television, film, record production, and sound reinforcement. May be repeated for a total of 9 units. Extra fee required.

BECA 533 Advanced Music Recording Workshop (Units: 3)
Prerequisites: BECA 330, BECA 430 or equivalent.

Aesthetics of current commercial recording techniques. Studio and simulated remote live recording session. Complex mixes. Laboratories in editing and music inter-cutting.
BECA 535 Advanced Audio for Video (Units: 3)
Prerequisites: Restricted to BECA major; BECA 335; consent of department.

Sound theory and practice as applied to post-production audio for video. Time code synchronization of sound effects, music, and dialogue. Field recording and mixing for picture. Extra fee required.

BECA 536 Creativity and Problem Solving in Electronic Media (Units: 3)
Prerequisite: Consent of department and instructor. Enrollment priority for BECA majors.

Exploration of the creative process for media students. Use of multimedia, computers, and games as tools to enhance creativity and to develop problem-solving skills.

BECA 545 Television Directing I (Units: 3)
Prerequisites: Restricted to BECA major; BECA 240, BECA 241; consent of department and instructor.

Creating and directing a variety of television productions. Laboratory. Extra fee required.

BECA 546 Electronic Field Production I (Units: 3)
Prerequisites: Restricted to BECA major; BECA 240, BECA 241; consent of instructor.

Technical and aesthetic elements of video field production and editing. Program conceptualization, pre-production, production, and post-production. Extra fee required.

BECA 547 Video Editing II (Units: 3)
Prerequisites: Restricted to BECA major; BECA 348; consent of department.

Developmental study of the video editing process. Focus on editing stages, editing decision making, editing styles for different program genres. Media asset management and the role of the editor in the production process. Project based course.

BECA 550 The Broadcast Interview (Units: 3)
Prerequisites: BECA 240, BECA 241, consent of department.

Interview as an essential tool for broadcast information gathering and presentation. Interview styles, question research, production approaches for television and radio, and special interview formats such as talk shows and political debates.

BECA 559 Sports Reporting for Television (Units: 3)
Prerequisites: BECA 560, BECA 546.

Specialized skills and practices of television sports journalism: writing to visuals, sports field reporting, and interviewing athletes. Emphasis on the student's ability to research and select relevant topics and issues.

BECA 560 Radio and Television News Writing (Units: 3)
Prerequisites: BECA major, consent of department or instructor.

Reporting and writing for broadcast news, writing and editing the newscast, and field reporting techniques.

BECA 561 News Reporting for Television (Units: 3)
Prerequisites: BECA major; BECA 240, BECA 241, BECA 560; consent of department.

Techniques of broadcast and cable reporting; writing for visual production; production of field reports; use of research retention techniques; and experimental use of visuals in newscasts. Extra fee required.

BECA 562 Television/Video Documentary Production (Units: 3)
Prerequisites: BECA major; BECA 462, BECA 546; consent of instructor.

Methods for the production of documentaries for broadcast and cable television. Extra fee required.

BECA 570 Writing for Electronic Media Genres (Units: 3)
Prerequisites: BECA 370, BECA 470, or consent of instructor.

Exploration of “new media” content writing, focusing on the “webisode” or short-format online episodic program. Compare traditional television script and story structure with that of online series. Explore ways how new media needs to differ from TV. Topic to be specified in the Class Schedule. May be repeated when topics vary.

BECA 576 Internship in Broadcast and Electronic Communication Arts (Units: 3)
Prerequisites: Upper division standing; restricted to BECA major; consent of department and instructor.

Internship experience in professional broadcast and electronic media organization. May be repeated for a total of 6 units. (CR/NC grading only)

BECA 580 Media in Community Service (Units: 3)
Prerequisite: BECA 546 or consent of instructor.

Use of media for public agencies and institutions and by non-profit groups; creating and placing public service announcements; developing media programs for agencies, institutions, and community groups; budgeting; grant-seeking. Fieldwork. May be repeated for a total of 6 units with consent of instructor. (CSL may be available)

BECA 581 Electronic Media and Social Justice I (Units: 3)
Prerequisites: Restricted to BECA major; BECA 546 (may be taken concurrently); or consent of instructor.

Planning and production of electronic media content for social justice goals. Community integration via domestic non-profit organizations. Preparation for production in international contexts. (Plus-minus letter grade only)

BECA 582 Electronic Media and Social Justice II (Units: 3)
Prerequisites: Restricted to BECA major; BECA 546, BECA 581 or consent of instructor; consent of department,

Students travel to an international destination to produce a video for a Non-Governmental Organization (NGO), as service to the NGO. (Plus-minus letter grade only)

BECA 590 New Electronic Communication Technologies (Units: 3)
Prerequisites: BECA major; HTML or equivalent; consent of department and instructor.

Lecture/laboratory course focusing on innovation and change in acquisition, distribution, storage, and display systems of electronic communication. Emphasis on the interactive aesthetic of electronic media.

BECA 593 Interactive Electronic Media Workshop (Units: 3)
Prerequisites: Restricted to BECA major; consent of department.

Design and production of online interactive media, such as web pages, with emphasis on broadcast technologies and distribution principles.
BECA 594 Mobile Electronic Media (Units: 3)
Prerequisite: Senior BECA major.
Aspects of mobile media: business and legal environments; social and personal impact; writing for mobile, news on mobile, producing and marketing mobile content.

BECA 600 Senior Seminar (Units: 3)
Prerequisite: Senior standing.
Relationships between various academic disciplines and the broadcast media.

BECA 623 Ethics and Responsibility in the Electronic Media (Units: 3)
Prerequisite: Upper division standing.
Concept of professionalism and roles of individuals, law, and government in determining ethical standards in the electronic media.

BECA 626 Corporate and Institutional Media Production (Units: 3)
Prerequisites: BECA 546, consent of instructor.
Organization and production of television projects in corporate and institutional settings, including health care facilities and governmental agencies: employee information and training projects, teleconferencing, interactive media, and live multi-camera newscasting.

BECA 640 Television/Video Production Planning (Units: 3)
Prerequisites: BECA major; BECA 230 and BECA 231, or BECA 240 and BECA 241, or equivalents; consent of department or instructor.
Organization and production planning of live television programs; budgets, legal clearances, scripting, casting, distribution, marketing, and logistical problems; duties of the above-the-line team. Emphasis on live coverage and distribution of television entertainment events. Laboratory.

BECA 645 Television Directing II (Units: 3)
Prerequisites: Restricted to BECA majors and minors; BECA 545
Continuation of BECA 545 with emphasis on experimental approaches to the medium. May be repeated for a total of 6 units.

BECA 646 Electronic Field Production II (Units: 3)
Prerequisites for BECA 746: BECA 546, BECA 700, and consent of instructor.
Prerequisites for BECA 646: Restricted to BECA major; BECA 546; consent of department and instructor.
Electronic field production and editing: production and analysis of field-based television program material; relationship between production variables and aesthetic practices. Extra fee required.
(BECA 746/BECA 646 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

BECA 647 Advanced Video Production (Units: 3)
Prerequisites: BECA major; BECA 546; consent of department and instructor.
Professional-level production of announcements and messages created for a client and intended for broadcast. Production planning and effective acquisition and post production. [CSL may be available]

BECA 648 Digital Video Editing II (Units: 3)
Prerequisites: BECA major; BECA 547; consent of department and instructor. Theoretical and practical aspects of the principles of digitizing and editing videotape.

BECA 649 Prosumer Production: Producing Video with Micro Budgets (Units: 3)
Prerequisites: Upper division standing; BECA 240, BECA 241.
Examination of the tools and skills needed to engage in quality audiovisual production, with emphasis on limited budgets. Classwork, 2 units; activity, 1 unit. May be repeated for a total of 6 units.

BECA 650 TV Center Sports I (Units: 3)
Prerequisites: BECA 240, BECA 241, BECA 546, BECA 370.
Demanding advanced studio and field production, news writing, reporting, and performance. Shoot/edit sports highlights and features. Capstone course produces weekly TV program for SF media market. May be repeated for a total of 6 units.

BECA 651 Play-by-Play Sports Production (Units: 3)
Prerequisites: Restricted to BECA majors and minors; BECA 240, BECA 241, or equivalents; or consent of instructor.
Production of live sports event coverage for simulcast via the Internet, cable television, and broadcast outlets. Experience in large-scale report audio/video production activities. May be repeated for a total of 6 units.

BECA 660 Television Center News (Units: 4)
Prerequisites: Restricted to BECA major; BECA 560, BECA 561; consent of department and instructor.
Operation of a cablecast news service covering the city of San Francisco: research and production of stories for newscasts; coverage of San Francisco beats; researching, editing, and compiling of television news packages. May be repeated for a total of 8 units.

BECA 665 News Reporting and Producing for Radio (Units: 3)
Prerequisites: BECA 560, consent of department and instructor.
Basics of radio news: gathering, writing, editing, and producing news reports and features and anchoring newscasts for campus radio station KSFS. Activity.

BECA 670 Writing for Interactive Electronic Media (Units: 3)
Prerequisites: Restricted to BECA major; BECA 370; consent of instructor.
Script writer's role in the creation of interactive electronic media. Differences between conventional screen narrative and interactive story telling and information presentation.

BECA 685 Projects in the Teaching of Broadcast and Communication Arts (Units: 1-4)
Prerequisites: BECA major, consent of department and instructor.
Developing courses and lectures, leading discussions, and teaching and evaluating students of the broadcast and electronic communication arts. Teaching experiences as instructional aide in assigned BECA course. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

BECA 693 Interactive Electronic Media Workshop II (Units: 3)
Prerequisites: BECA major; BECA 593; consent of instructor.
Advanced workshop in design and production of on-line interactive media.

BECA 695 Practicum in Broadcast and Electronic Communication Arts (Units: 3)
Prerequisite: Consent of supervising staff and department chair.
Advanced projects in broadcast and communication arts under faculty supervision. Laboratory. May be repeated for a total of 6 units.
Beca 699 Independent Study (Units: 1-3)
Prerequisites: Upper division standing; written consent of supervising instructor, major adviser, and department chair.
Individual study, under the supervision of a faculty member selected by the student, of an aspect of broadcast and electronic communication arts not included in the curriculum.

Beca 700 Introduction to Graduate Study (Units: 4)
Prerequisite: Admission to the BECA M.A. program.
Introduction to graduate study in broadcast and electronic communication. History of mass communication and electronic media theory. Academic writing, graduate-level research, and survey of BECA faculty’s teaching, research, and production activity. (Plus-minus letter grade only)

Beca 701 Formula and Creativity in the Public Arts (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Relationship between formula and creativity; theory and practice of formulas and genres, particularly in relation to the public arts; systems of criticism.

Beca 702 Ethics and Responsibility in the Electronic Media (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Broadcast industry self-regulatory codes of ethics and responsibility, concepts of freedom and responsibility as they relate to broadcasters, the government, and the public. (Plus-minus letter grade only)

Beca 703 Seminar in Theory and Research (Units: 3)
Prerequisite: BECA 700.
Graduate seminar in broadcast theory and research methods. (AB/NC grading only)

Beca 706 Seminar in Media Aesthetics and Production Theory (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Investigation of perceptual conditions and aesthetic theories that guide the interpretation, analysis, and creation of visual and sound images in the electronic media; how these theories may be creatively applied in the production process.

Beca 707 Seminar in International Broadcasting (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
International broadcasting: research methods and theory, comparative broadcast systems, new technology, short-wave, the influence of international politics and legislation, media ownership, and international broadcasting ethics.

Beca 725 Television/Video Program Design (Units: 3)
Prerequisite for BECA 725: BECA 700 or consent of instructor.
Prerequisites for BECA 425: Junior standing; BECA 200; or consent of instructor.
Process of designing educational television series. Pre-production stages of series development. (Beca 725/BECA 425 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Beca 735 Aesthetics of Sound (Units: 3)
Prerequisites for BECA 735: BECA 230, BECA 231 or equivalent, BECA 700 or consent of instructor.
Prerequisites for BECA 435: BECA 230, BECA 231 or equivalent.
Aesthetics of sound and the basic principles involved in theoretical and critical analysis of audio in media, including radio, television, film, music, and other audio-visual communication. (Beca 735/BECA 435 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Beca 746 Electronic Field Production II (Units: 3)
Prerequisites for BECA 746: BECA 546, BECA 700, and consent of instructor.
Prerequisites for BECA 646: Restricted to BECA major; BECA 546; consent of department and instructor.
Electronic field production and editing; production and analysis of field-based television program material; relationship between production variables and aesthetic practices. Extra fee required. (Beca 746/BECA 646 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Beca 750 Seminar in Developing and Funding Productions for Electronic Media (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Development of a media project from idea to funding package, including brainstorming, research, outline, treatment, and package; preparation of applications for external and internal funding from local, regional, state, federal, private and public sources. (AB/NC grading only)

Beca 752 Seminar in Broadcast and Electronic Communication Arts Pedagogy (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Process of curricular and instructional preparation for students who wish to teach broadcast and electronic communication arts. (Plus-minus letter grade only)

Beca 770 Media Writing and Performance (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Writing and performance for the electronic media; writing scripts for features, persuasive messages, informational programs, and drama; script analysis and development of performance skills for camera and microphone.

Beca 790 Seminar in New Electronic Communication Technologies (Units: 3)
Prerequisites: Graduate standing; BECA 700; consent of instructor.
Evolving communication technologies: cable television, digital broadcasting, satellite transmission, video telephony, the Internet. Hardware, software, and social integration issues.

Beca 797 Seminar in Electronic Media Production (Units: 3)
Prerequisites: BECA 700 and consent of instructor.
This class is for active or prospective producers of nonfiction for television, radio, and net. This is a laboratory course where participants share rough drafts of their projects for critiques; discuss production challenges, scripting and design challenges, and logistical challenges. Topic to be specified in the Class Schedule. May be repeated for a total of 6 units as topics vary.
BECA 822 Seminar in Media and Society (Units: 3)
Prerequisite: BECA 700 or consent of instructor.
Social implications of broadcasting and electronic media; theoretical and methodological issues surrounding electronic media processes and effects; effects of electronic media on cultural and social institutions. May be repeated twice when the topic varies. (Plus-minus letter grade only)

BECA 852 Directed Experience in Broadcast and Electronic Communication Arts Education (Units: 3)
Prerequisites: BECA 700, consent of graduate program adviser, sponsoring faculty member, and department chair.
Directed experience in teaching the broadcast communication arts. Students assist in course preparation and instruction and receive supervision from the instructor in charge.

BECA 870 Seminar in Television Dramatic Writing (Units: 3)
Prerequisites: Graduate standing; BECA 700; or consent of instructor.
Writing the teleplay: premise, character, conflict, dialogue, and structure and how these elements are influenced by television as a unique dramatic medium. (Plus-minus letter grade only)

BECA 894 Creative Work Project (Units: 3)
Prerequisites: Consent of instructor and department chair; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies; BECA 897.

ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

BECA 896 Readings for the Written Comprehensive Examination (Units: 3)
Prerequisites: Completion of the student's academic program and consent of graduate major adviser.
Readings and discussion concerning principles, issues, and theories in mass communication research, criticism, aesthetics, and production. Culminates in the written comprehensive examination.

BECA 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair; approval of Advancement to Candidacy (ATC); and Culminating Experience (CE) forms by Graduate Studies.
ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. Enrollment in 896EXM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 898, or 998, (or in some cases, courses numbered 890 - see program's graduate advisor for further information). (CR/NC, RP)

BECA 897 Research for Thesis and Creative Project Proposals (Units: 3)
Prerequisites: Completion of student's academic program, consent of graduate coordinator.
Preparation of proposal for master's thesis or creative project under supervision of the instructor and thesis committee. (CR/NC grading only)

BECA 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and department chair; approval of Advancement to Candidacy (ATC) for the Master of Arts and Culminating Experience (CE) forms by Graduate Studies, BECA 897.

ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

BECA 899 Independent Study (Units: 1-3)
Prerequisites: Consent of graduate major adviser, supervising instructor, and department chair.
Problems in broadcast communication arts for graduate students who have demonstrated the ability to do independent work. May be repeated for a total of 6 units.
Business (BUS)

BUS 300GW Business Communication for Professionals - GWAR (Units: 3)
Prerequisite: Restricted to upper division Business majors; ENG 214 or equivalent with a grade of C- or better.

Written and oral fundamentals of business communication; hands-on experience creating common formats of written and oral communication at the standard expected of business professionals; ethical and legal implications of business communication. (ABC/NC grading only)

Course Attributes:

• Graduation Writing Assessment

BUS 320 Legal Aspects of Business Transactions (Units: 3)
Prerequisites: Restricted to accounting majors; ENG 214 recommended.

Rights and obligations arising out of common business transactions such as contracts, agency, employment, business organizations, and negotiable instruments. Consideration of the law related to investors, including securities law and the professional and legal responsibilities of accountants.

BUS 360 Business Communication (Units: 3)
Prerequisites: Restricted to upper division Business majors; COMM 150, ENG 214, or equivalent with grades of C- or better.

Written and oral communication including theory, business writing, oral reports, problem-solving, data analysis, use of visual aids in communication, and ethical/legal issues.

BUS 440 Ethics at Work: Business Impacts (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Analysis of applied ethical theory, decision-making and practice to workplace issues in business and related organizations using interactive learning case studies, class exercises, and student presentations.

Course Attributes:

• UD-C: Arts and/or Humanities

BUS 450 Greening of Business (Units: 3)
Prerequisites: ENG 214, COMM 150.

Impact of business firms on the natural environment; forces driving businesses to become environmentally sustainable and types of approaches businesses are taking to respond to environmental issues.

BUS 499 Culminating Experience Continuous Enrollment (Unit: 0)

BUS 682 Seminar on Business and Society (Units: 3)
Prerequisites: Restricted to senior Business majors; BUS 300GW or BUS 360 or DS 660GW, MGMT 405, each with a grade of C- or better.

Dialogues and case study analyses of business and its interaction with the ethical, legal, public policy, social, technological, and environmental effects on individual stakeholders in managing the business enterprise in domestic and global societies. (Plus-minus letter grade only)

BUS 690 Seminar in Business Policy and Strategic Management (Units: 3)
Prerequisites: Upper division standing; BUS 360 or BUS 300GW or DS 660GW, FIN 350, DS 412, MGTG 431, MGMT 405, ISYS 363 or ACCT 307, all with grades of C- or better.

Capstone seminar in business policy and strategic management. Case studies provide background for organizational and functional problems. Emphasizes international environment. Solutions (oral and written) include implementation and methods of quantifiable evaluations. (Plus-minus letter grade only)

BUS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive problem analysis under the direction of a business faculty member. Open only to upper division students who have demonstrated ability to do independent work. [CSL may be available]

BUS 714 Elements of Graduate Business Writing (Units: 3)
Prerequisite: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs. For students who do not meet minimum written English proficiency.

Integrated basic writing skills with principles of business writing and organizational communication. May not be used to meet master’s degree ATC requirements. (CR/NC grading only)

BUS 776 Data Analysis for Managers (Units: 3)
Prerequisite: Restricted to graduate business students, graduate students in other majors may enroll with the consent of the Faculty Director of Graduate Programs.

Spreadsheet-based statistical tools to support decision making in operations, finance, marketing; graphical and descriptive tools for data analysis, correlation, regression, estimation, probability distributions, hypothesis testing. (Plus-minus letter grade only)

BUS 780 Financial Accounting (Units: 3)
Prerequisite: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Survey of financial accounting including relevant standards and concepts. Preparation and use of financial statements; measurement and reporting of financial information to external parties. (Plus-minus letter grade only)

BUS 782 Information Systems for Management (Units: 3)
Prerequisite: Restricted to graduate business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Information systems and their use in business management. Information technology for managers, the role of different types of information systems in businesses, common information systems, problem-solving, and application development. (Plus-minus letter grade only)
BUS 783 Economics for Managers (Units: 3)
Prerequisite: Restricted to graduate Business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Macroeconomic and microeconomic environments within which businesses operate. Applications of intermediate level economic theory to business operations and management decisions on a local, national, and multinational basis. (Plus-minus letter grade only)

BUS 784 The Political, Social, and Legal Environment of Business (Units: 3)
Prerequisite: Restricted to graduate Business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Contemporary social, political, and legal issues that demonstrate the mutual impacts of economic and non-economic institutions both here and abroad. (Plus-minus letter grade only)

BUS 785 Financial Management (Units: 3)
Prerequisites: Restricted to graduate Business students; graduate students in other majors with the consent of the Faculty Director of Graduate Programs; BUS 780, BUS 776.

Using valuation as the theme, the course covers the conceptual, analytical, and institutional aspects of financial decision making. Specific topics include time value of money, valuation models, capital budgeting, risk and return, required rate of return, modern portfolio theory, and capital structure. (Plus-minus letter grade only)

BUS 786 Operations Analysis (Units: 3)
Prerequisites: Restricted to graduate Business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Production management and control with related computer applications: production and distribution planning, inventory control, and demand forecasting. Quantitative analysis. (Plus-minus letter grade only)

BUS 787 Marketing Management (Units: 3)
Prerequisite: Restricted to graduate Business student, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Introduction to basic marketing concepts, principles, theories, and techniques. (Plus-minus letter grade only)

BUS 788 Management Principles and Organizational Behavior (Units: 3)
Prerequisite: Restricted to graduate Business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Management, organization theory, and behavioral analysis applied to conventional management problems in domestic and international environments. (Plus-minus letter grade only) [CSL may be available]

BUS 857 Business Management, Ecology, and Environmental Leadership (Units: 3)
Prerequisite: Restricted to graduate Business students, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Impact of business organizations on the natural environment. Approaches to effectively respond to environmental issues. (Plus-minus letter grade only)

BUS 859 International Business Negotiating (Units: 3)
Prerequisites: 6 units in SF State graduate program. Restricted to graduate business students and students in the Ethics & Compliance Certificate program. Graduate students in other majors may enroll on a space-available basis with the consent of the Faculty Director of Graduate Programs.

Development of intercultural negotiating skills through cases involving protagonists, organizational contexts, and situations. (Plus-minus letter grade only)
(This course is offered as BUS 859 and IBUS 859. Students may not repeat the course under an alternate prefix.)

BUS 867 Graduate Internship in Business (Unit: 1)
Prerequisites: BUS 700 series, consent of instructor, and an internship in business.

Analysis of actual experience in a business field. Organization and operation evaluated with respect to management theories. Individual study and conferences with instructor. May be repeated once for a total of 2 units. (Plus-minus letter grade only)

BUS 881 Financial and Managerial Accounting (Units: 4)
Prerequisites: Restricted to EMBA student or consent of the Faculty Director of Graduate Programs.

Preparation and use of corporate financial and managerial accounting information. Measurement and reporting of financial statements. Use of managerial accounting information in planning, control, decision making, and cost management. (Plus-minus letter grade only)

BUS 882 Seminar in Advanced Computer Applications and Information Systems for Management (Units: 4)
Prerequisites: Restricted to EMBA students or consent of the Faculty Director of Graduate Programs.

Information systems architectures and internet/intranet sites in information technology (IT) strategy, N-tier IT solutions development tools, and project management methodology for IT solutions. In-depth treatment of IT solution specifications, IT architecture development, IT development tools, and IT infrastructure. (Plus-minus letter grade only)

BUS 883 Economics for Managers (Units: 4)
Prerequisite: Restricted to EMBA students or consent of the Faculty Director of Graduate Programs.

Micro- and macroeconomic analysis for business decisions. Numerical, geometric, and essay applications of intermediate-level economic theory to business operations and management decisions on a local, national, and global basis. (Plus-minus letter grade only)

BUS 884 Business Ethics, Society, and Sustainability (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Role and impact of business in society. Contemporary social, political, legal, and ethical issues that demonstrate the mutual impact of economic and non-economic institutions both domestically and abroad. (Plus-minus letter grade only)
BUS 885 Corporate Financial Management (Units: 4)
Prerequisites: BUS 881, BUS 886. Restricted to EMBA students or consent of the Faculty Director of Graduate Programs.

Financial management. Corporate finance: financial statement analysis, valuation, capital budgeting, capital structures, dividend policy, and risk management. (Plus-minus letter grade only)

BUS 886 Seminar in Statistics and Operations Analysis (Units: 4)
Prerequisites: Restricted to EMBA students or consent of the Faculty Director of Graduate Programs.

Operations planning and control and related computer applications. Elements of probability and statistics, quality management, inventory control, project management, and demand forecasting. Quantitative analysis and computer applications. (Plus-minus letter grade only)

BUS 887 Strategic Marketing Management (Units: 4)
Prerequisites: Restricted to EMBA students or consent of the Faculty Director of Graduate Programs.

Strategic marketing management: the development, evaluation, and implementation of marketing plans for product-markets. Strategic decisions, decisions which have a long-term impact on the organization. (Plus-minus letter grade only)

BUS 888 Managing Organizational Change (Units: 4)
Prerequisite: Restricted to EMBA students or consent of the Faculty Director of Graduate Programs.

How organizations evolve, how they are structured and designed, and how they function. Provides a basis for the application of practical models to increase organizational effectiveness. Diagnosis of organizational problems, management of change, and influence on organizational structure. (Plus-minus letter grade only)

BUS 890 Culminating Experience in Strategic Management (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Case study analysis as a culminating experience option in fulfillment of the requirements for the master's degree. Strategy formulation, implementation, techniques and decision-making in the context of the economic, social, political, and competitive global environment. (ABC/NC grading; RP allowed)

BUS 895 Research Project in Business (Units: 3)
Prerequisites: Minimum 12 units of 800 level business course, consent of instructor and Business graduate office; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (ABC/NC grading; RP allowed)

BUS 898 Master's Thesis (Units: 3)
Prerequisites: Minimum 12 units at the 800 level, consent of instructor and Business graduate studies office; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Chemistry (CHEM)

CHEM 100 Preparation for Chemistry (Units: 3)
Elementary concepts of chemistry. Development of skills in applying mathematics to solving problems in chemistry. Preparation for CHEM 115 or CHEM 180. (Plus-minus ABC/NC grading only)

CHEM 101 Survey of Chemistry (Units: 3)
Prerequisite: ELM with score of 50 or higher or exemption, or MATH 70 or ESM 70 with a grade of C or better, high school chemistry recommended. Principles of general and organic chemistry and biochemistry. Suitable for pre-nursing, exercise science and health science majors. Not preparation for CHEM 115.
Course Attributes:
  • B1: Physical Science

CHEM 102 Survey of Chemistry Laboratory (Unit: 1)
Laboratory to accompany or follow CHEM 101. Extra fee required. (Charges for missing or damaged laboratory locker items apply)
Course Attributes:
  • B3: Lab Science

CHEM 109 Fundamentals of Food Chemistry: Natural Constituents and Additives (Units: 3)
Chemical composition of foods including sugars, starches, fats, and oils; protein, vitamins, and minerals; additives used in food; government role in food processing and distribution.

CHEM 110 Fundamentals of Food Chemistry: Natural Constituents and Additives Laboratory (Unit: 1)
Prerequisite: Must be taken concurrently with CHEM 109. Laboratory to accompany CHEM 109.

Hands-on experience in assessing food constituents using modern chemical methods and techniques including chemical instrumentation. (Charges for missing or damaged laboratory locker items apply)

CHEM 115 General Chemistry I: Essential Concepts of Chemistry (Units: 5)
Prerequisites: CHEM 100 with a grade of C or better (letter grade only) or satisfactory score on chemistry placement exam. ELM with a score of 50 or better or approved exemption, or MATH 70 with a grade of C or better or ESM 70 with a grade of CR.

Essential concepts of atomic properties, atomic interactions, reaction chemistry, stoichiometry, thermodynamics, chemical kinetics, and equilibria. Classwork, 4 units; laboratory, 1 unit. Extra fee required. (Charges for missing or damaged laboratory locker items apply)

CHEM 130 General Organic Chemistry (Units: 3)
Prerequisite: CHEM 115 with a grade of C or better.

Common organic compounds and basic principles. For laboratory, see CHEM 234. Cannot be used for the chemistry or biochemistry degrees.

CHEM 180 Chemistry for the Energy and the Environment (Units: 3)
Prerequisites: MATH 70 with a grade of C or better, or ELM with a score of 50 or better or an exemption, high school chemistry.

Study of the fundamental chemical principles that underly chemical processes in the environment, and the chemical processes that are important to the generation of energy. Suitable for engineering and environmental studies majors. Extra fee required. (Charges for missing or damaged laboratory locker items apply)
Course Attributes:
  • B1: Physical Science
  • B3: Lab Science
  • Environmental Sustainability

CHEM 215 General Chemistry II: Quantitative Applications of Chemistry Concepts (Units: 3)
Prerequisite: CHEM 115 with a grade of C or better.

Quantitative aspects of chemistry with an emphasis on kinetics, equilibria (acid-base, solubility, and buffer), thermodynamics, and electrochemistry.

CHEM 216 General Chemistry II Laboratory: Quantitative Applications of Chemistry Concepts (Units: 2)
Prerequisite: CHEM 215 with a grade of C or better (may be taken concurrently). Determination of thermodynamic quantities; rate laws; acid dissociation constants; preparation and analysis of buffer solutions; synthesis and analysis of a molecular complex. Laboratory. Extra fee required. (Charges for missing or damaged laboratory locker items apply)

CHEM 233 Organic Chemistry I (Units: 3)
Prerequisites: CHEM 115, CHEM 215 with grades of C or better. Priority enrollment for Chemistry and Biochemistry majors. Other majors may enroll on a space available basis.

Principles of organic chemistry emphasizing the structure, properties and reactions of alkanes, cycloalkanes, alkyl, halides, alcohols, ethers and alkenes; stereochemistry; mechanisms of substitution and elimination reactions. Primarily for students majoring in chemistry and biochemistry.

CHEM 234 Organic Chemistry I Laboratory (Units: 2)
Prerequisite: CHEM 233 or CHEM 130 with a grade of C or better (may be taken concurrently).

Techniques and selected experiments in organic chemistry. Classwork, 1 unit; laboratory, 1 unit. Extra fee required. (Charges for missing or damaged laboratory locker items apply)

CHEM 251 Mathematics and Physics for Chemistry (Units: 3)
Prerequisites: CHEM 215, MATH 226, MATH 227, PHYS 220, PHYS 222, PHYS 230, PHYS 232, each with a grade of C or better, or consent of instructor. Concurrent enrollment in CHEM 351 is strongly recommended.

Integrated mathematics and physics for physical chemistry, fluids, wave motion, or thermodynamics, partial derivatives, multiple integrals, introductory vector calculus, introductory differential equations. (Plus-minus letter grade only)

CHEM 300 General Physical Chemistry I (Units: 3)
Prerequisites: CHEM 321, CHEM 335, MATH 227, PHYS 121 or PHYS 230 or PHYS 240, each with a grade of C or better. CHEM 340 or CHEM 349 recommended. For Chemistry, Biochemistry, and Biology majors.

Chemical thermodynamics; kinetic theory of gases; properties of solutions. Designed for students in biology, preprofessional curricula, biochemistry and chemistry majors.
CHEM 301 General Physical Chemistry II (Units: 3)
Prerequisites: CHEM 300 with a grade of C or better or consent of instructor; concurrent enrollment in CHEM 340 or CHEM 349.
Quantum mechanics, spectroscopy, biophysical spectroscopy, intermolecular forces, macromolecules, and statistical thermodynamics.

CHEM 321 Quantitative Chemical Analysis (Units: 3)
Prerequisites: CHEM 215, CHEM 216, with grades of C or better. For Chemistry, Biochemistry, and Biology majors.
Foundation course in analytical chemistry with a focus on quantitative analysis. Topics include uncertainties, statistics, equilibria, titrimetric methods, electrochemistry and potentiometry, molecular and atomic spectroscopy, mass spectroscopy, and chromatography. (Plus-minus letter grade only)

CHEM 322 Quantitative Chemical Analysis Laboratory (Units: 2)
Prerequisite: CHEM 321 with a grade of C or better (may be taken concurrently). For Chemistry, Biochemistry, and Biology majors.
Practical experience in performing accurate and precise measurements of chemical species in a variety of real world samples using gravimetric, titrimetric, potentiometric, spectroscopic, and chromatographic methods. Extra fee required. (Charges for missing or damaged laboratory locker items apply) Students who have taken CHEM 320 cannot take CHEM 321 or CHEM 322 for credit. (Plus-minus letter grade only)

CHEM 325 Inorganic Chemistry (Units: 3)
Prerequisites: CHEM 215, CHEM 335 with grades of C or better. For Chemistry, Biochemistry, and Biology majors.
Theories of chemical bonding and their application to inorganic systems with emphasis on transition metal complexes. Molecular symmetry; acid/base, redox and solid-state chemistry; introduction to organometallic and bioinorganic chemistry.

CHEM 327 Practical GC and HPLC (Units: 4)
Prerequisites: CHEM 234, CHEM 321, CHEM 322, all with grades of C or better.
Theory, hardware, and experience in GC and HPLC separations. Emphasis on practical skills and common applications in natural products, environmental, and pharmaceutical analyses. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 335 Organic Chemistry II (Units: 3)
Prerequisite: CHEM 233 with grade of C or better.
Continuation of CHEM 233.

CHEM 336 Organic Chemistry II Laboratory (Units: 2)
Prerequisites: CHEM 234, CHEM 335 (may be taken concurrently), with grades of C or better.
Techniques and experiments in organic synthesis, isolation, purification and characterization. Intended for science majors. Activity: 1 unit; laboratory, 1 unit. Extra fee required. (Charges for missing or damaged laboratory locker items apply)

CHEM 338 Organic Chemistry II: Laboratory Honors (Units: 3)
Prerequisites: CHEM 233, CHEM 234, with grades of B or better; must be taken concurrently with CHEM 335. Substitute for CHEM 336.
Experiments in organic synthesis and analysis plus a research project directed by faculty. Classwork, 1 unit; laboratory, 2 units. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 340 Biochemistry I (Units: 3)
Prerequisites: CHEM 215, CHEM 233, CHEM 335, with grades of C or better. For Chemistry, Biochemistry, and Biology majors.
Protein structure and function; carbohydrate metabolism; enzyme kinetics and thermodynamics; electron transport chain.

CHEM 341 Biochemistry II (Units: 3)
Prerequisite: CHEM 340 with a grade of C or better.
Biosynthesis and degradation of lipids, amino acids, and nucleotides; protein synthesis, folding and degradation; DNA and RNA structure; DNA replication and transcription.

CHEM 343 Biochemistry I Laboratory (Units: 3)
Prerequisites: CHEM 216, CHEM 234, CHEM 340 (may be taken concurrently) or CHEM 349 (may be taken concurrently), all with grades of C or better; CHEM 321 is recommended. Priority registration for Biochemistry and Chemistry majors.
Chemical and enzymatic experiments involving proteins, carbohydrates, and nucleic acids with emphasis on enzyme kinetics. Utilization of standard and modern biochemical techniques. Classwork, 1 unit; laboratory, 2 units. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 349 General Biochemistry (Units: 3)
Prerequisites: CHEM 215 with a grade of C or better; CHEM 130 with a grade of C or better or CHEM 335 with a grade of C or better. Not for B.S. Biochemistry or Chemistry majors.
Survey of major areas in biochemistry including enzymology, bioenergetics, and carbohydrate, lipid and nucleic acid metabolism. Students who have completed CHEM 340 may not take CHEM 349 for credit.

CHEM 351 Physical Chemistry I: Thermodynamics and Kinetics (Units: 3)
Prerequisites: Upper division standing; CHEM 233, CHEM 251 (may be taken concurrently), CHEM 321, with grades of C or better, or consent of the instructor.
Thermodynamics and kinetic theory. Classwork, 2 units; activity, 1 unit.

CHEM 353 Physical Chemistry II: Quantum Chemistry and Spectroscopy (Units: 3)
Prerequisites: Upper division standing; CHEM 233, CHEM 251, CHEM 321, with grades of C or better, or consent of instructor.
Quantum chemistry, spectroscopy of atoms and molecules, statistical thermodynamics. Classwork, 2 units; activity, 1 unit.
CHEM 370 Computer Applications in Chemistry and Biochemistry (Units: 3)
Prerequisite: CHEM 321, CHEM 233, with grades of C or better.
Data acquisition, manipulation, and presentation with emphasis on software used in chemistry and biochemistry laboratories. Computational chemistry and molecular visualization software for small and large molecules. Development of interactive molecular visualization web pages. Classwork, 2 units; laboratory, 1 unit.

CHEM 380 Chemistry Behind Environmental Pollution (Units: 3)
Prerequisite: CHEM 115 or CHEM 180 with a grade of C- or better.
Traditional and contemporary topics in environmental chemistry. Understanding and appreciation of various chemical processes and principles underlying environmental problems facing society.
Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability

CHEM 390GW Contemporary Chemistry and Biochemistry Research - GWAR (Units: 3)
Prerequisites: Upper division standing; Chemistry or Biochemistry major; ENG 214 or ENG 215, CHEM 216 or CHEM 234 with a grade of C or better.
Improve skills in written and oral communication with an emphasis on the communication skills expected of chemists and biochemists in their professional activities. Classwork, 2 units; laboratory, 1 units. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

CHEM 399 Careers in Chemistry and Biochemistry (Unit: 1)
Prerequisite: Senior standing.
Discussion of the full spectrum of careers in chemistry and biochemistry: career counseling, resume and interview guidance and strategies, outside speakers from education and industry. (CR/NC grading only)

CHEM 420 Environmental Analysis (Units: 3)
Prerequisites: CHEM 321, CHEM 322, with grades of C or better.
Practical analysis of real world samples and environmental pollutants. Statistics, QA/QC, heavy metal analysis via atomic spectroscopy, and organic pollutant analysis via GC/MS. Classwork, 2 units; laboratory. 1 unit. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 422 Instrumental Analysis (Units: 4)
Prerequisites: CHEM 321, CHEM 322, with grades of C or better.
Instrumental methods for chemical and biochemical analysis including basic electronics, molecular and atomic spectroscopy, IR and Raman spectroscopy, mass spectrometry, and chromatography. Classwork, 2 units; laboratory, 2 units. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 426 Advanced Inorganic Chemistry Laboratory (Units: 2)
Prerequisites: CHEM 321, CHEM 322, CHEM 325, with grades of C or better, or consent of the instructor.
Modern techniques in inorganic chemistry with an emphasis on synthesis, characterization, and reactivity of metals in a variety of materials including biological and environmental samples. Extra fee required. (Charges for missing or damaged laboratory locker items apply)

CHEM 433 Advanced Organic Chemistry (Units: 3)
Prerequisites: CHEM 335 with a grade of C or better, CHEM 301 or CHEM 353 (may be taken concurrently).
Theoretical aspects of organic chemistry, molecular structure, and reaction mechanisms.

CHEM 443 Biophysical Chemistry Laboratory (Units: 4)
Prerequisites: CHEM 343 with a grade of C or better, CHEM 301 or CHEM 353 (may be taken concurrently).
Experiments using modern techniques in biochemistry, bioinformatics, molecular biology and biophysics for the study of biological macromolecules. Classwork, 2 units; laboratory, 2 units. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 451 Experimental Physical Chemistry Laboratory (Units: 2)
Prerequisites: CHEM 321, CHEM 322, CHEM 351, CHEM 353 or CHEM 300 and CHEM 301, with grades of C or better, or consent of instructor.
Emphasis on molecular spectroscopy, thermodynamics, kinetics, electrochemistry, applications of computational chemistry, and error analysis. 2 laboratory periods per week. Extra fee required. (Charges for missing or damaged laboratory locker items apply) (Plus-minus letter grade only)

CHEM 470 Research (Units: 3)
Prerequisites: One year each of general and organic chemistry and consent of instructor and faculty research adviser.
Intended for motivated students interested in independent research. Requires 6-9 hours of research each week, lecture attendance, formal poster presentation, and written report. May be repeated for a total of 6 units.

CHEM 640 Advanced Topics in Biochemistry (Units: 3)
Prerequisites: CHEM 349 or CHEM 341 or CHEM 340, BIOL 350, with grades of C or better, or consent of the instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

CHEM 645 Research Trends in Chemistry and Biochemistry (Units: 3)
Prerequisites: GPA of 3.0 or better, CHEM 340, one semester of physical chemistry.
Self-directed learning experience for undergraduates in modern research topics in chemistry and biochemistry.

CHEM 680 Chemical Oceanography (Units: 3)
Prerequisite: CHEM 215 or equivalent.
Investigation of the composition and dynamics of the ocean through chemistry. (Plus-minus letter grade only)

CHEM 685 Projects in the Teaching of Chemistry and Biochemistry (Unit: 1)
Prerequisites: Consent of instructor, a grade of B or better in the course in which student will be instructing.
Instructional methods and techniques for effective student teaching, leading class discussions and activities and carrying out class demonstrations. May be repeated for a total of 4 units.
CHEM 693 Cooperative Education Program (Units: 6-12)
Prerequisite: Consent of instructor.
Supervised chemistry laboratory employment. Enrollment by prior arrangement with the employer and department. Final written report is required. A maximum of 2 units (1 unit for each semester) may be used to meet elective requirements in chemistry major programs. May be repeated for up to 24 units. (CR/NC grading only)

CHEM 694 Cooperative Education in Chemistry (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Supervised chemistry laboratory experience in industry. Enrollment by prior arrangement with supervising faculty member and industry sponsor. See department adviser for details. A final written report is required. May be repeated for a total of 3 units.

CHEM 699 Independent Study (Units: 1-6)
Prerequisite: Consent of the department and instructor.
Laboratory or library research work focused on chemistry and biochemistry problems directed by a department faculty. For advanced, superior students majoring or minoring in Chemistry or Biochemistry. Final written report required. May be repeated.

CHEM 741 Electron Microscopy (Units: 4)
Prerequisite: Graduate or senior standing, or consent of instructor.
Preparation of biological and inorganic materials for scanning and transmission electron microscopy, x-ray microanalysis, EBSD, CL, operation of the electron microscope(s), and data interpretation. Classwork, 1 unit; laboratory, 3 units. Extra fee required. (This course is offered as BIOL 741, CHEM 741, and ERTH 741. Students may not repeat the course under an alternate prefix.)

CHEM 800 Special Topics in Chemistry (Units: 3)
Prerequisite: Graduate standing in Chemistry or consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

CHEM 820 NMR Applications and Techniques (Units: 3)
Prerequisite: Classified graduate standing in Chemistry or consent of instructor.
FT NMR concepts and operating techniques; 10 and 2D experiments; relaxation and dynamics. Spectral interpretation. Classwork, 2 units; laboratory, 1 unit.

CHEM 821 Mass Spectrometry - Principles and Practice (Units: 3)
Prerequisite: Classified graduate standing in Chemistry or consent of instructor.
Fundamental principles and modern practice of mass spectrometry, instrumentation (mass analyzers, ionization modes, sample introduction systems) and applications (qualitative and quantitative analysis, environmental and biomedical applications). (Plus-minus letter grade only)

CHEM 832 Organic Synthesis (Units: 3)
Prerequisite: Classified graduate standing in Chemistry or consent of instructor.
Problems relating to current organic synthetic methods. Synthesis and reactions of the major classes of mono- and polyfunctional compounds.

CHEM 834 Organic Spectroscopic Methods (Units: 3)
Prerequisites: Classified graduate standing in Chemistry; CHEM 301 or CHEM 353; or consent of instructor.
Relations between molecular structure and spectroscopic behavior. Mass spectrometry, infrared, electronic and magnetic resonance spectroscopy.

CHEM 841 Enzymology (Units: 3)
Prerequisites: Classified graduate standing in Chemistry; CHEM 341, CHEM 301 or CHEM 353; or consent of instructor.
The relationships between enzyme structure and catalytic activity, including enzyme kinetics and mechanisms.

CHEM 842 Bioorganic and Medicinal Chemistry (Units: 3)
Prerequisite: Classified graduate status in Chemistry or consent of instructor.
Molecular recognition, enzymatic reaction mechanisms, catalytic antibodies/polymers, enzymes in organic synthesis, pharmacodynamics, and drug action, drug design for pharmacokinetic problems.

CHEM 846 Biology and Chemistry of Signaling Pathways (Units: 3)
Prerequisite: Classified graduate status or consent of instructor.
An interdisciplinary presentation of the mechanisms by which extracellular stimuli trigger intracellular biochemical reactions that lead to alterations in cellular function. (This course is offered as BIOL 732 and CHEM 846. Students may not repeat the course under an alternate prefix.)

CHEM 850 Valency and Spectroscopy (Units: 3)
Prerequisites: Classified graduate standing in Chemistry; passing score on the ACS diagnostic examination in quantum chemistry; or consent of instructor.
Quantum mechanics of atomic and molecular structure using computers and group theory. Elementary microwave, infrared, optical, and magnetic resonance spectroscopy.

CHEM 851 Biochemical Spectroscopy (Units: 3)
Prerequisites: Classified graduate standing in chemistry; passing ACS diagnostic examination in quantum chemistry; a biochemistry course; or consent of instructor.
Quantum chemistry elements. Principles, techniques, and biochemical applications of spectroscopy.

CHEM 852 Statistical Mechanics: Molecular Relaxation (Units: 3)
Prerequisites: CHEM 351, CHEM 353, or equivalents.

CHEM 870 Computational Methods in Chemistry (Units: 3)
Prerequisites: Upper division or graduate standing; one year of undergraduate physical chemistry.
Introduction to quantum chemical and classical mechanical methods for the computation of molecular structure, molecular spectroscopy, liquid state transport properties and molecular reactivity for small and large molecules, including solids and interactions at surfaces. Hands on use of four software packages: Gaussian 09, AMBER molecular dynamics, LAMMPS dynamics for mesoscopic systems, and BEST for molecular hydrodynamics. (Plus-minus letter grade only)
CHEM 880 Seminar (Units: 3)
Prerequisite: Classified graduate standing in chemistry or consent of instructor.

Exploration of current areas and methods of chemical research. Oral presentations and scientific writing. Should be taken during the first year of graduate work.

CHEM 885 Teaching College Chemistry (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of the role of preparation, assessment, and feedback in teaching college-level chemistry laboratory and discussion sections; emphasis on effective classroom techniques and organizational strategies. (Plus-minus letter grade only)

CHEM 895 Research Project (Units: 3)
Prerequisites: Consent of instructor; approval of Advancement to Candidacy (ATC); and Culminating Experience (CE) forms by Graduate Studies.

Supervised independent and original laboratory investigation. Guidelines are available through the Department of Chemistry & Biochemistry. (CR/NC grading only)

CHEM 897 Research (Units: 1-9)
Prerequisites: Classified graduate standing in Chemistry, CHEM 880 (may be taken concurrently), or consent of instructor.

Independent and original laboratory, computational, or theoretical research under faculty supervision. May be repeated for a total of 9 units.

CHEM 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) for the Master of Science in Chemistry and Culminating Experience (CE) forms by Graduate Studies.

ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)
Child & Adolescent Development (CAD)

CAD 120 Child Development, Social Justice, and Academic Success (Units: 3)
Prerequisite: Restricted to freshmen.
Focus on educational and social justice for child and adolescent development. General education skills, writing, oral communication, critical thinking, and quantitative reasoning, are systematically reinforced. (Plus-minus letter grade only)
Course Attributes:
- E1: Lifelong Learning Develop
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

CAD 210 Introduction to Applied Child and Adolescent Development (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor. Priority enrollment for freshmen and sophomores who are pre-CAD majors.
Growth and development of children from prenatal stage through adolescence and its relevant application in work with children and families; physical, cognitive, linguistic, social, moral and emotional aspects of development. May be repeated for a total of 6 units. (Plus-minus letter grade only)
Course Attributes:
- D1: Social Sciences

CAD 215 Foundations in Early Childhood (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor. Priority enrollment for freshmen and sophomores.
Observation of teachers and children under the age of five years in a quality licensed center or program. Foundations and best practices in early childhood education. (Plus-minus letter grade only)

CAD 260 Children, Families, and Community: An Ecological Perspective (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor. Priority enrollment for freshmen and sophomores who are pre-CAD majors.
Understanding children, families, and community from an ecological perspective. Emphasis on contribution of basic and applied research to development in relation to family and community.
Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

CAD 300 Professional Roles and Careers in Child and Adolescent Development (Units: 3)
Prerequisites: CFS 320, PSY 330, or equivalent or consent of instructor.
Overview of child and adolescent development and careers related to children, youth, and families.

CAD 325 Jumpstart: Mentoring Young Children (Units: 3)
Prerequisite: Enrollment in Jumpstart program.
Models of early childhood intervention are explored, with emphasis on Jumpstart For Young Children model. Topics include: developmentally appropriate child-centered activities to enhance learning, positive adult-child interactions, family involvement. [CSL may be available]

CAD 326 Jumpstart: Developing Literacy Skills in Young Children (Units: 3)
Prerequisite: Enrollment in Jumpstart program.
Training and experience for students working with young children in preschool settings in the development of literacy activities for young children and their families. [CSL may be available]

CAD 400 Community Youth Development (Units: 3)
Prerequisites: Upper division standing; restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.
Introduction to youth and community development, emphasizing community supports and opportunities for healthy youth development. Theories and research used to construct a framework for youth development; program models and legislation examined. As part of course work, students will work off-campus with a local youth/community program. (Plus-minus letter grade only) [CSL may be available]

CAD 410 Applied Child and Youth Development (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.
Understanding of child and adolescent development based upon research and particularly its application to practice. Current and emerging issues associated with the promotion of child and youth development will be reviewed. (Plus-minus letter grade only)

CAD 430 Experiential and Activity Based Learning Seminar (Units: 2)
Prerequisites: Restricted to Child and Adolescent Development majors. ENG 214, CAD 210, CAD 260, or equivalents; concurrent enrollment in CAD 431.
Development and implementation of an experiential learning activity for youth; incorporation of foundations of the youth development model. (Plus-minus letter grade only) [CSL may be available]

CAD 431 Experiential and Activity Based Learning Practice (Units: 2)
Prerequisites: Restricted to Child and Adolescent Development majors. ENG 214, CAD 210, CAD 260, or equivalents; concurrent enrollment in CAD 430.
125 hours of supervised youth work in the community to practice the development, implementation of experiential and activity based learning opportunities. (CR/NC grading only) [CSL may be available]

CAD 450 Understanding and working with Diverse Families (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.
Drawing on a variety of disciplines, examination of experiences of families, including family diversity, theories on families, and challenges families face; application in the areas of family engagement, involvement, and support. (Plus-minus letter grade only)
CAD 460 Globalization and Family Relations (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.

Examination of the concepts of globalization, migration, and transnationalism to understand families and family relations within the larger context of cultural and social influences. (Plus-minus letter grade only)

Course Attributes:

• Global Perspectives

CAD 500GW Action Research Methods in Child and Adolescent Development - GWAR (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214 or equivalent with a grade of C- or better, CAD 210 and CAD 260 or equivalents with grades of C or better, and CAD 410 with a grade of C or better.

Introduction to action research, including design and methodology of research studies and principles of action research. Students will develop a systematic plan to address social problems that affect children, youth, and families. (ABC/NC grading only)

CourseAttributes:

• Graduation Writing Assessment

CAD 510 Adult Supervision and Leadership in Early Childhood Programs (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214 or equivalent, CAD 210, CAD 215, CAD 260, or equivalents.

Exploration of adult supervision, administration and leadership in early childhood programs from theoretical and personal perspectives. (Plus-minus letter grade only)

CAD 525 Honors Seminar in Child and Adolescent Development (Units: 3)
Prerequisite: Restricted to upper division Child and Adolescent Development majors.

Examination of theory, research, and practice in child and adolescent development that can be applied to international, national, and local contexts. (Plus-minus letter grade only)

CAD 540 Ethics and Principles in Serving Youth (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.

Understanding of practice and service provision, key ethical issues, the values that underpin them, and how youth work can be professionally conducted; ethics within the framework of ecological model. (Plus-minus letter grade only)

CAD 600 Child and Adolescent Development Internship Seminar (Units: 2)
Prerequisites: Restricted to senior Child and Adolescent Development majors; completion of 36 units in major with grades of C or better; approval of internship application; must be taken concurrently with CAD 601.

Capstone course. Analysis of agencies that serve children and youth with regard to professional competencies, standards and ethics, leadership, organizational structure and functioning. (Plus-minus letter grade only)

CAD 601 Child and Adolescent Development Internship (Units: 2)
Prerequisites: Restricted to senior Child and Adolescent Development majors; completion of 36 units in major with grades of C or better; approval of internship application; must be taken concurrently with CAD 600.

Supervised experience in educational institutions, health and human service agencies, and organizations that serve children, youth, and families. (CR/NC grading only)

CAD 610 Early Childhood Internship Seminar (Unit: 1)
Prerequisites: Restricted to senior Child and Adolescent Development majors with a concentration in Early Childhood; completion of 150 supervised and documented hours working (paid or volunteer) in a licensed center; approval of internship application; CAD 215 or equivalent; concurrent enrollment in CAD 611.

Preparation for professional employment in organizations that serve young children and their families; discussion of issues with peers, reflection of initial classroom practices, identification of teaching strengths and weaknesses, and enhancement of own professional development. (Plus-minus letter grade only)

CAD 611 Early Childhood Internship (Units: 2)
Prerequisites: Restricted to senior Child and Adolescent Development majors with Early Childhood concentration; completion of 150 supervised and documented hours working (paid or volunteer) in a licensed center; approval of internship application; CAD 215 or equivalent; concurrently enrollment in CAD 610.

Preparation for professional employment in organizations that serve young children and their families; evaluation based on growth and development within standards, competencies and practices to best support development outcomes of children and management of classroom environments. (CR/NC only)

CAD 625 Children, Youth, and Public Policy (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.

Overview of how public policies for services for children and youth are developed, adopted, and implemented; policy process and historical and current policy issues in areas of education and child care. (Plus-minus letter grade only; CR/NC not allowed)

CAD 630 Youth Work and Out of School Time Internship Seminar (Unit: 1)
Prerequisites: Restricted to senior Child and Adolescent Development majors with a concentration in Youth Work; approval of internship application; concurrent enrollment with CAD 631.

Reflection on CAD 631 experience; sharing experiences; enhancing tools to promote professional development. (Plus-minus letter grade only)

CAD 631 Youth Work and Out of School Time Internship (Units: 3)
Prerequisites: Restricted to senior Child and Adolescent Development majors with a concentration in Youth Work; approval of internship application, concurrent enrollment with CAD 630.

175 hours of supervised youth work in the community. The experience will be guided by measurable goals that are relevant to the community site and students' aspiration. (Plus-minus letter grade only)
CAD 640 Policy, Advocacy, and Systems Capstone Experience (Units: 4)
Prerequisites: Restricted to senior Child and Adolescent Development majors with a concentration in Policy, Advocacy, and Systems.

Synthesize, integrate, and apply the knowledge students have gained during their previous coursework in the major. Learning experiences include a community service learning volunteer placement and completion of an online portfolio of academic work. (Plus-minus letter grade only)

CAD 650 Child Advocacy (Units: 3)
Prerequisites: Restricted to Child and Adolescent Development majors; ENG 214, CAD 210, CAD 260, or equivalents.

Effective advocacy for children in a variety of settings: organizations, communities, human services systems, regional government, and legislatures. Strategies learned in class will be applied to real-life issues in a community service learning component. [CSL may be available]

CAD 680 International Field Study in Child and Adolescent Development (Units: 3)
Prerequisite: Child and Adolescent Development majors with a minimum grade point average of 3.0 or consent of instructor.

Comparison of child development programs and settings in international venues with that of the U.S. Involves travel as a group for 2 to 3 weeks to selected countries outside the U.S. May be repeated for a total of 6 units.

CAD 685 Projects in the Teaching of CAD (Units: 1-4)
Prerequisites: Consent of instructor; grade of B+ or better in course assisting.

Instructional aides have opportunity to increase knowledge of course topic and understanding of teaching and learning. Provide assistance to students in class activities. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

CAD 699 Independent Study (Units: 1-4)
Prerequisites: Upper division standing; consent of instructor and major adviser.

An intensive study of a particular issue in child and adolescent development selected by the student. Enrollment by petition. May be repeated for a total of 6 units.
Chinese (CHIN)

CHIN 101 First Semester Chinese (Units: 5)
Understanding, speaking, reading, and writing modern Mandarin Chinese at the elementary level. Emphasis on the spoken language. Laboratory attendance required.
Course Attributes:
• C2: Humanities
• Global Perspectives
• Social Justice

CHIN 102 Second Semester Chinese (Units: 5)
Prerequisite: CHIN 101 or consent of instructor.
Further study of elementary Mandarin Chinese. Laboratory attendance required.
Course Attributes:
• C2: Humanities
• Global Perspectives
• Social Justice

CHIN 103 Third Semester Chinese (Units: 5)
Prerequisite: CHIN 102 or consent of instructor.
Understanding, speaking, reading, and writing modern Mandarin Chinese at the low-intermediate level. Laboratory attendance required.
Course Attributes:
• C2: Humanities
• Global Perspectives
• Social Justice

CHIN 111 Accelerated Elementary Chinese I (Units: 5)
Prerequisite: Consent of the instructor. Open to highly motivated students with no or limited (elementary level) proficiency in Chinese (any dialect).
Rapidly builds Mandarin proficiency of students admitted to or considering application to the Chinese Flagship Program. CHIN 111/CHIN 112 provides instruction equivalent to CHIN 101/CHIN 102/CHIN 103.
Course Attributes:
• C2: Humanities
• Global Perspectives
• Social Justice

CHIN 112 Accelerated Elementary Chinese II (Units: 5)
Prerequisite: CHIN 111 or consent of instructor.
Follows CHIN 111. Focus on listening, speaking, reading, and writing Mandarin. CHIN 111/CHIN 112 provides instruction equivalent to CHIN 101/CHIN 102/CHIN 103.
Course Attributes:
• Social Justice

CHIN 175 Flagship Preparation I (Unit: 1)
Prerequisite: Concurrent enrollment in CHIN 103 and consent of instructor.
Augments CHIN 103 for preparation for the Chinese Flagship Program.
Focus on writing; practice with traditional and simplified Chinese characters, composition, and use of electronic media for Chinese.

CHIN 228 Chinese Language and Society (Units: 3)
Introduction to theoretical concepts that have shaped production and reception of Chinese and Japanese literary and cultural texts in twentieth and twenty-first centuries; national and transnational perspective with comparative approach. Taught in English.
Course Attributes:
• C2: Humanities
• Global Perspectives

CHIN 271 The Classic Chinese Novel in Contemporary Pop Culture (Units: 3)
Exploration of legacy of China’s four great classic novels in contemporary Chinese popular culture. Analysis of original works and their adaptation in TV shows and cinema, fiction, computer games and theme parks. (This course is offered as CHIN 271 and HUM 271. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• C2: Humanities
• Global Perspectives
• Social Justice

CHIN 275 Flagship Preparation II (Units: 2)
Prerequisites: Concurrent enrollment in CHIN 303 and consent of instructor. Augments CHIN 303 for preparation for the Chinese Flagship Program.
Focus on writing; practice with traditional and simplified Chinese characters, composition, and use of electronic media for Chinese.

CHIN 280 Chinese Calligraphy (Units: 3)
An examination of Chinese character formation and evolution, as well as a survey of varieties of Chinese scripts and hands-on practice of Chinese calligraphy.

CHIN 303 Intermediate Chinese (Units: 5)
Prerequisite: CHIN 103 or consent of instructor.
Balanced focus on spoken and written Mandarin Chinese. Developing students’ oral fluency, expanding vocabulary, correcting pronunciation. Improving skills using basic texts written in Chinese characters and writing sentences in characters. Laboratory attendance required. [Formerly CHIN 250]

CHIN 311 Conversation and Reading (Units: 3)
Prerequisite: CHIN 303 or consent of instructor.
Developing proficiency in spoken Mandarin and written Chinese. Review of basic sentence patterns, vocabulary expansion, and acquisition of Chinese characters.
Course Attributes:
• Global Perspectives
CHIN 312 Speech and Writing (Units: 3)
Prerequisite: CHIN 311 or consent of instructor.

Developing proficiency in spoken Mandarin and written Chinese. Vocabulary expansion, acquisition, and retention of Chinese characters; speaking and writing skills in interactive context.

Course Attributes:

- Global Perspectives

CHIN 375 Introduction to Academic Prose (Units: 3)
Prerequisites: Intermediate Mandarin and acceptance to Flagship or permission of Director.

Training in the four skills (listening, speaking, reading, and writing) and three modes (interpersonal, interpretive, and presentational), using materials from the humanities, social sciences, and professional disciplines.

CHIN 401 Advanced Chinese (Units: 3)
Prerequisites: CHIN 311, CHIN 312, or consent of instructor.

Developing Chinese proficiency at advanced level: vocabulary expansion, acquisition, and retention of Chinese characters in both full and simplified forms; communicative competence in four skills (listening, speaking, reading, and writing).

Course Attributes:

- Global Perspectives

CHIN 410 Building Chinese Media Literacy (Units: 3)
Prerequisite: CHIN 401 or consent of instructor.

Vocabulary, structures, styles, and topics of contemporary Chinese media. Newspapers, radio and television broadcasts, websites, blogs, and social media of Greater China. Intensive focus on reading and listening, augmented by writing and presentation assignments. (This course is offered as CHIN 410 and JOUR 410, and is taught in Chinese. Students may not repeat the course under an alternate prefix.)

CHIN 411 Media Chinese (Units: 3)
Prerequisite: CHIN 401 or consent of instructor.

Mandarin as it is used in various genres on radio/television and in news reports and articles, editorials, interviews, and advertisements. (This course is offered as CHIN 411, J R 413, and JOUR 411. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- Global Perspectives

CHIN 475 Flagship Chinese I (Units: 3)
Prerequisites: Intermediate level Mandarin Chinese skills and acceptance to Flagship Program or permission of its Director. Concurrent enrollment in a Flagship Content Area Course is required.

Intermediate to advanced training in all four skills and three modes of language.

CHIN 476 Flagship Chinese II (Units: 3)
Prerequisites: Intermediate level Mandarin Chinese skills and acceptance to Flagship Program or permission of its Director. Concurrent enrollment in a Flagship Content Area Course is required.

Continuation of focus on intermediate to advanced training in all four skills and three modes of language.

CHIN 501 Introduction to Classical Chinese (Units: 3)
Prerequisite: CHIN 312 (may be taken concurrently) or consent of instructor.

Stylistic and structural characteristics of classical Chinese; problems of interpretation; introduction to literary genres in cultural context.

Course Attributes:

- Global Perspectives

CHIN 502 Readings in Literary Chinese (Units: 3)
Prerequisite: CHIN 311 or CHIN 312.

Close readings of classical Chinese texts drawn from philosophical, historical, and literary sources, such as the Sishu (the Four Books), the Wujing (Five Confucian Classics), and classical Chinese poetry from the Han to the Tang. Classical Chinese grammar is studied using a hands-on approach; reading of text in original, analyze linguistic features, and socio-historical and literary context.

CHIN 507 Traditional Chinese Culture (Units: 3)
Prerequisite: CHIN 401 (may be taken concurrently) or consent of instructor.

Highlights of the development of Chinese culture from antiquity to the 19th century. Selected readings, films.

CHIN 521 Chinese Modern Fiction (Units: 3)
Prerequisite: CHIN 401 or consent of instructor.

Major authors from the May Fourth Movement and subsequent periods.

Course Attributes:

- Global Perspectives

CHIN 525 Chinese Applied Linguistics (Units: 3)
Prerequisite: CHIN 311 or consent of instructor.

Application of modern descriptive linguistics to the analysis of phonological, morphological, and syntactic structures of Mandarin.

CHIN 530 Oratory and Performance in Chinese (Units: 3)
Prerequisite: CHIN 312 or consent of instructor.

Intensive training or oral/aural skills in standard Mandarin (putonghua/guoyu) at the high intermediate to advanced levels, through preparation and participation in oratory and performance activities.

CHIN 537 The Chinese Language and Modern China (Units: 3)
Prerequisite: CHIN 312 or consent of instructor.

Introduction to the linguistic structure, historical development, and present state of Modern Standard Chinese; its relationship to the major Chinese dialect families; aspects of Chinese sociolinguistics and pragmatics.

CHIN 580 Topics in Modern Chinese Language and Literature (Units: 3)
Prerequisite: CHIN 312 or CHIN 401 or consent of instructor.

Topic to be specified in Class Schedule. May be repeated when topics vary.

CHIN 582 Topics in Classical Chinese Language and Literature (Units: 3)
Prerequisite: CHIN 501 or CHIN 502 or consent of instructor.

Advanced topics centered on works written in literary and/or classical Chinese language. Topic to be specified in Class Schedule. Topic descriptions may be found in the online Bulletin. May be repeated when topics vary.
CHIN 600 Topics in Chinese Language, Literature, and Culture in English (Units: 3)
Prerequisite: ENG 214 or consent of instructor.
Topic to be specified in Class Schedule. May be repeated when topics vary.

CHIN 601GW The Poetic Tradition - GWAR (Units: 3)
Prerequisite: ENG 214 with a grade of C- or better or consent of instructor.
Major Chinese poets from antiquity to late imperial times, discussed in cultural context. Taught in English. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment
• Global Perspectives

CHIN 602 The Narrative Tradition in English (Units: 3)
Prerequisite for CHIN 802: Admission to Chinese M.A. program or consent of instructor.
Prerequisite for CHIN 602: ENG 214 or equivalent or consent of instructor.
Chinese literary tradition, ranging from philosophical essays, historical writings, fiction and drama, from 500 B.C. to novels of late 19th Century. Taught in English.
(CHIN 802/CHIN 602 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CHIN 611GW The Revolutionary Tradition in Modern Chinese Literature - GWAR (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better, or consent of instructor.
Introduction to 20th century Chinese literature and thought with particular focus on politically motivated writers; critical engagement with the most important intellectual trends and political movements from the last days of Imperial rule to the present. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment
• Global Perspectives

CHIN 612GW Negotiating Chineseness in the Late 20th and 21st Centuries - GWAR (Units: 3)
Prerequisites: Upper division standing: Chinese majors; ENG 214 or equivalent with a grade of C- or better, or consent of instructor
Exploration of multiple negotiation of Chineseness through a wide range of texts from the People's Republic, Taiwan, Hong Kong, and the Chinese Diaspora. Focus on literary, cinematic and critical works produced between 1970 and present. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment
• Global Perspectives

CHIN 699 Independent Study (Units: 1-3)
Prerequisite: Consent of department chair and instructor. Open only to undergraduate students who have demonstrated ability to do independent work.
Written projects requiring critical analysis and interpretation of literary, linguistic, or pedagogical problems.

CHIN 785 Projects in the Teaching of Chinese (Units: 1-3)
Prerequisites: Graduate standing; tutoring appointment in the Chinese Flagship Program.
Experience with proficiency-based methods for teaching Chinese. Supervising faculty member offers individual direction and group pedagogy sessions. Enrollment for 1-3 units (1 unit requires 2 hours tutoring and 1 hour preparation weekly). May be repeated for a total of 4 units maximum. (CR/NC grading only)

CHIN 799 Chinese Tutorial Practicum (Units: 3)
Prerequisite: Admission to the Chinese M.A. program.
Development of pedagogical skills for language teaching to individuals and small groups. Students engage in tutorial practicum, under supervision. Lectures/workshops on Teaching Chinese as a Second Language supplement practical experience. May be repeated for 3 units. (CR/NC grading only)

CHIN 802 The Narrative Tradition in English (Units: 3)
Prerequisite for CHIN 802: Admission to Chinese M.A. program or consent of instructor.
Prerequisite for CHIN 602: ENG 214 or equivalent or consent of instructor.
Chinese literary tradition, ranging from philosophical essays, historical writings, fiction and drama, from 500 B.C. to novels of late 19th Century. Taught in English.
(CHIN 802/CHIN 602 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CHIN 820 The Road To Modernity Part 1: Chinese Literary Trends of the Late Imperial and Republican Periods (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of the most important literary trends and genres (fiction, poetry, drama, reportage) that have shaped the development of modern Chinese literature from the 1850s until 1945. Will constitute part 1- of a 2-part survey of modern Chinese literature.

CHIN 821 Modern Chinese Literature (Units: 3)
Prerequisite: Admission to Chinese program or consent of instructor.
Readings by major authors from the May Fourth Movement to the present, as well as selections from secondary scholarship.

CHIN 822 Classical Chinese Literature (Units: 3)
Prerequisite: Admission to Chinese program or consent of instructor.
Classical philosophical, historical, and bellettristic writings.

CHIN 824 Testing & Assessment in Teaching/Learning Chinese as a Second Language (Units: 3)
Prerequisite: Admission to Chinese M.A. program or consent of instructor.
Survey of research and methods in testing/assessment in Teaching Chinese as a Second/Foreign Language. Focus on standards for measuring language competence, professionalism, and program reviews.

CHIN 825 Applied Linguistics and Teaching Chinese (Units: 3)
Prerequisite: Admission to Chinese program or consent of instructor.
Investigation of practical issues pertinent to second language acquisition and pedagogy in Teaching Chinese as a Second Language.
CHIN 826 Semantics and Morphology (Units: 3)
Prerequisite: Admission to Chinese M.A. program, or CHIN 401 and consent of instructor.

Introduction to linguistic meaning and word formation in Chinese. Chinese semantics, pragmatics, morphology in light of recent findings in cognitive science.

CHIN 827 Language Change and Dialectic Variation (Units: 3)
Prerequisite: MLL 325 [formerly F L 325] or equivalent.

Introduction to mechanisms of language change and their application to Chinese historical linguistics and modern dialect classification. Topics include sound change, lexical change, grammaticalization, linguistic reconstruction, language typology, and Chinese philology.

CHIN 837 Materials Development for Teaching Chinese (Units: 3)
Prerequisite: Admission to Chinese M.A. program or consent of instructor.


CHIN 881 Translation (Units: 3)
Prerequisite: Admission to Chinese M.A. program, or consent of instructor.

Translation theory and its application to English and Chinese. Topics include meaning, levels of equivalence, fidelity and authorship, metaphor and idiomatic language, domesticating and foreignizing strategies, transliteration and romanization, translation of specific genres, Chinese translation theory, and translation research.

CHIN 882 Consecutive and Simultaneous Interpreting (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Seminar focusing on general English-Chinese and Chinese-English liaison, consecutive and simultaneous interpreting. Training in shadowing, note-taking, and effort management, leading to build-up of skills inconsecutive and simultaneous interpreting.

CHIN 883 Advanced Translation and Interpreting (Units: 3)
Prerequisites: Graduate standing; CHIN 881, CHIN 882; or consent of instructor.

Training in the translation of literary texts and in conference interpreting. Translation portion focuses on Chinese literary works and methods of transforming the aesthetic and the cultural; interpreting segment will provide training in consecutive and simultaneous interpreting.

CHIN 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. (CR/NC, RP)

CHIN 899 Independent Study (Units: 1-3)
Prerequisites: Consent of the graduate major adviser and the supervising faculty member. Enrollment by petition.

Study is planned, developed, and completed under the direction of a member of the departmental faculty. Open only to graduate students who have demonstrated ability to do independent work.
Cinema (CINE)

CINE 102 Introduction to Contemporary Cinema (Units: 3)
Studies in recent filmmaking. Dominant forms (Hollywood, Europe) and
alternative modes (documentary, experimental). How films reflect and
contribute to the values and culture of a society.
Course Attributes:
• C1: Arts
• Global Perspectives

CINE 200 Introduction to Cinema Studies (Units: 3)
Prerequisites: Restricted to sophomore standing or above; Cinema
majors and minors; or consent of instructor.
Expressive properties and codes of cinema. Mainstream and alternative
traditions of film: Hollywood, the art film, documentary, third cinema, the
avant-garde. Basic critical methods and perspectives. Must be completed
with a grade of C or better.

CINE 202 Introduction to Filmmaking (Units: 3)
Prerequisite: Restricted to sophomore standing or above; Cinema majors;
or consent of instructor; concurrent enrollment in CINE 204.
Introductory survey of film production. Operation, function, and creative
use of filmmaking tools common to development, pre-production,
production, post-production, and distribution. Exploration of technical
considerations, the language of filmmaking, and creating meaning in
cinema.

CINE 204 Introduction to Filmmaking Laboratory (Unit: 1)
Prerequisites: Sophomore standing or above or consent of instructor,
Cinema majors, concurrent enrollment in CINE 202.
Practice in the creative use of filmmaking tools common to pre-
production, production, and post-production. Development and execution
of short individual and group film projects designed to explore creative
problem-solving in motion picture production. (Plus-minus letter grade
only)

CINE 211 Film History I (Units: 3)
Prerequisites: Restricted to sophomore standing or above; Cinema major
or minor; or consent of instructor.
Narrative, documentary, and experimental films (1895-1945), including
directors such as Griffith, Murnau, Eisenstein, Pudovkin, Bunuel, Chaplin,
Richter, Dreyer, Pabst, Lorentz, Deren, Cocteau. Must be completed with a
grade of C or better.

CINE 212 Film History II (Units: 3)
Prerequisites: Restricted to sophomore standing or above; Cinema major
or minor; or consent of instructor.
Narrative, documentary and experimental films since 1945, including
directors such as de Sica, Rossellini, Clair, Bergman, Fellini, Brakhage,
Kurosawa, Ray, Truffaut, Antonioni, Rouch, and Godard. Must be
completed with a grade of C or better.

CINE 280 The Ancient World in Film (Units: 3)
Prerequisite: ENG 114 or equivalent.
Examination of how ancient Greek and Roman myth and history are
represented in film, often as a way of looking critically at modern society
and its values.
(This course is offered as CLAS 280 and CINE 280. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• C2: Humanities

CINE 301 Introduction to Film Studies and Production (Units: 3)
Prerequisite: Restricted to upper division Cinema major or minor; or
consent of instructor.
Introduction to the basic principles of film studies and production;
historical development of film, taking into consideration technical
developments and the evolution of film aesthetics.

CINE 303GW Writing About Cinema - GWAR (Units: 3)
Prerequisites: Upper division Cinema major; ENG 214 or equivalent with a
grade of C- or better; or consent of instructor.
Advanced analysis and persuasive writing. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

CINE 304 Gender and Film (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Critical examination of issues related to the representation of gender
and sexuality in Cinema. Topic to be specified in Class Schedule. May be
repeated for a total of 9 units as topics vary.

CINE 305 Film and the Holocaust (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The use of film to promote, document, and dramatize the Holocaust.
Filmmakers who have sought to give expression to its human scale.
Significant works which have helped define the issues.
(This course is offered as CINE 305 and JS 405. Students may not repeat
the course under an alternate prefix.)

CINE 306 Chinese Documentary Film (Units: 3)
Prerequisites: CINE 200, CINE 202.
Study of contemporary Chinese documentary since the 1980s;
exploration of the cultural, social, and aesthetical context of Chinese
documentary films and filmmaking.

CINE 308 Third Cinema (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Critical perspectives on the aesthetics, cultural underpinnings and
political/historical context of films produced within societies formerly
called "third world." Topics to be specified in the class schedule. May be
repeated for a total of 6 units as topics vary.

CINE 310 Workshop in Film Production (Units: 3)
Prerequisites: Restricted to upper division Cinema major; CINE 200,
CINE 202, CINE 204, CINE 211, CINE 212, or equivalents, with grades of C
or better; or consent of instructor; concurrent enrollment in CINE 316.
Film production workshop where students are required to design and
complete solutions to a set of exercises featuring camera, sound, editing,
and writing.
CINE 315 Cinema Production: Technical Crew (Unit: 1)
Prerequisites: CINE 310, CINE 316, or equivalents, and consent of instructor.
Experience in phases of technical crew work associated with cinema productions. May be repeated for a total of 6 units. (CR/NC grading only)

CINE 316 Film Production Laboratory (Unit: 1)
Prerequisites: Restricted to upper division Cinema major or minor; CINE 200, CINE 202, CINE 204, CINE 211, CINE 212, or equivalents, with grades of C or better, or consent of instructor; concurrent enrollment in CINE 310.
Experience in 16mm production, including use of camera, lighting, sound, and editing equipment.

CINE 325 Focus on Film Topics (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Case studies and critical analyses of influential filmmakers, performers, or movements in Cinema. Topic to be specified in Class Schedule. May be repeated for a total of 4 units in any combination of CINE 325, CINE 326, and CINE 650 and as topics vary. (CR/NC grading only)

CINE 326 Film Festivals, Archives, and Movements in the San Francisco Bay Area (Unit: 1)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Exploration of the rich and diverse film culture of the S.F. Bay Area, including film societies, archives, and established festivals. Presents the model of film festival as a business with complex organizational and marketing challenges. Introduces the intricacies of the selection process for films submitted to festivals. May be repeated for a total of 4 units in any combination of CINE 325, CINE 326, and CINE 650 as topics vary. (CR/NC grading only)

CINE 327 Anthropology and Film (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Social and cultural anthropology through films, ethnographies, and popular writings of anthropologists.
(This course is offered as ANTH 327 and CINE 327. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

CINE 331 Hollywood Representation of Race and Ethnicity (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better.
Examination of the representation and narration of race and ethnicity in American Cinema. Employs critical and cultural theory as means to uncover the social significance of race as an ideological formation intertwined with the art and industry of American film.
Course Attributes:
- Am. Ethnic & Racial Minorities

CINE 332 Understanding the Representation and Narration of Sexuality in Cinema (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Examination of the representation and narration of sexuality in cinema with an emphasis on Hollywood. Employs critical and cultural theory, including critical race, queer, and feminist theory, as means to uncover the social and political significance of sexuality in cinema. Explores ways in which cinema reflects and refracts ideologies associated with sexual identity and expression.
(This course is offered as CINE 332 and SXS 332. Students may not repeat the course under an alternate prefix.)

CINE 340 Critical Studies (Units: 3)
Prerequisites: Restricted to upper division Cinema major or minor; ENG 214 or equivalent, completion of core requirements (CINE 200, CINE 202, CINE 204, CINE 211, CINE 212) with grades of C or better; concurrent enrollment in CINE 341; or consent of instructor.
Critical approaches for analyzing cinema. (Plus-minus letter grade only)

CINE 341 Critical Studies Discussion Group (Unit: 1)
Prerequisites: Restricted to upper division Cinema major or minor; ENG 214 or equivalent, completion of core requirements (CINE 200, CINE 202, CINE 204, CINE 211, CINE 212) with grades of C or better; concurrent enrollment in CINE 340, or consent of instructor.
Applied critical studies, including writing, discussion, and research about cinema. (Plus-minus letter grade only)

CINE 342 Documentary Film (Units: 3)
Prerequisites: Cinema major or minor; ENG 214 or equivalent with a grade of C- or better, CINE 200, CINE 202, CINE 204, CINE 211, CINE 212, with grades of C or better; or consent of instructor.
Development and shifting roles of non-fiction, live action film; significant work of such figures as Flaherty, Vertov, Riefenstahl, Grierson, Leacock-Pennebaker, and Marker.

CINE 342GW Documentary Film - GWAR (Units: 3)
Prerequisites: Upper division cinema major; ENG 214 or equivalent with a grade of C- or better; or consent of instructor.
Development and shifting roles of non-fiction, live action film; significant work of such figures as Flaherty, Vertov, Riefenstahl, Grierson, Leacock-Pennebaker, and Marker. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

CINE 344 Film Genre (Units: 3)
Prerequisites: Restricted to upper division Cinema major or minor; CINE 200, CINE 202, CINE 204, CINE 211, CINE 212, or equivalents, with grades of C or better; or consent of instructor.
Critical examination of a film genre focusing on key historical and theoretical issues. Topic to be specified in Class Schedule. May be repeated for a total of 9 units as topics vary.
CINE 346 The Art of Short Film (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent with grade of C- or better, Cinema major, or consent of instructor.

Examination of short film as a unique form of expression deserving serious study apart from the study of feature length films. Unique structural, aesthetic, and rhetorical dimensions of both fiction and nonfiction short films.

CINE 346GW The Art of Short Film - GWAR (Units: 3)
Prerequisites: Upper division Cinema major; ENG 214 or equivalent with a grade of C- or better; or consent of instructor.

Examination of short film as a unique form of expression deserving serious study apart from the study of feature length films. Unique structural, aesthetic, and rhetorical dimensions of both fiction and nonfiction short films. (ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

CINE 356 Fundamentals of Screenwriting (Units: 3)
Prerequisites: Upper division cinema major or minor; CINE 200, CINE 202, CINE 204, CINE 211, CINE 212, or equivalents with grades of C or better, ENG 214 or equivalent with a grade of C- or better; or consent of instructor.

Introduction to the principles of screenwriting; historical context for the development of dramatic writing. [Formerly CINE 353]

CINE 360 Animation I (Units: 3)
Prerequisites: Upper division standing and consent of instructor.

Aesthetics, dynamics of movement, and techniques of animation. Projects in varied media and methods. Laboratory. Extra fee required.

CINE 361 Drawing for Animation (Units: 3)
Prerequisites: Upper division standing and consent of instructor.

Studies in drawing techniques for animation: gesture and movement, kinetic volume, and abstraction of motion. May be repeated for a total of 9 units.

CINE 362 Animation II (Units: 3)
Prerequisites: CINE 360, CINE 423 (may be taken concurrently), and consent of instructor.

Developing storyboard and sound animation techniques. Laboratory. May be repeated for a total of 6 units. Extra fee required.

CINE 364 Animation Pre-Production (Units: 3)
Prerequisites: Upper division standing and consent of instructor.

Visual planning and picture/sound relationship including scripting, storyboarding, and soundtrack design.

CINE 365 History of Animation (Units: 3)
Prerequisite: Upper division standing.

Animated filmmaking around the world, from origins in graphic and photographic arts to current and future trends in film and electronic media. Varied techniques produced by studios and individual artists.

CINE 372 Film Theory (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.

Seminar in aesthetics with an analysis of theoretical and critical writing on film.

CINE 373 Film and Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Major social issues through analysis of film texts: race, class, gender and sexual role, feminism, ideology, political movements, social and historical change.

CINE 375 U.S. Culture and Cinema of the 1950s (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Analysis of representative Hollywood films of the 1950s in light of contemporary political, ideological, social, and economic shifts in U.S. culture, with the goal of understanding the historical precursors of current conceptions of the relationship between individuals and society.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

CINE 376 Cinema Department Internship (Unit: 1)
Prerequisite: Upper division Cinema majors.

Development of research, writing, and technical skills; training in production practices and technical equipment. May be repeated for a total of 9 units. (CR/NC grading only)

CINE 380 Principles of Computer Animation (Units: 2)
Introduction to the Maya interface and fundamental concepts of computer animation. With assignments that mix modeling, animation, lighting and render, this hands-on class will focus on basic interface overview and prepare students to enter the more specific aspects that are at the core of the program.

CINE 382 Animation Story Workshop (Unit: 1)
Exploration of different visual narrative techniques that are specific to the animation medium. Focus on timing, character development, story, character arcs and conflicts, and how to use them to create a compelling short suitable for computer animation; development of collaborative skills and experiment with visual storytelling.

CINE 383 How to bring a Digital Character to Life (Unit: 1)
Exploration of different techniques that help bring a digital character to life. Focus on group exercises and games, developing observation skills and creativity, how different body postures and facial expressions can help communicate different ideas, and tools necessary to enhance the performance of digital animated characters on screen.

CINE 384 Breaking into the Industry (Unit: 1)
Realistic ways to break into the animation industry; creating a good presentation package and locating the type of work that interest to you; different ways to build the skills necessary to be a desirable artist in the field of computer animation; current job market for animation, types of jobs, freelance work, work ethics; copyrights, licensing music for their films, and other legal

CINE 386 Short Subject Animation (Unit: 1)
Prerequisite: CINE 380 or equivalent.

Students will expand their knowledge of their introductory course into digital animation; storyboard, model, shade, rig, animate, light, and edit their own movies.
CINE 401 National/Regional Cinemas (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.
Critical exploration of a given national or regional cinema, addressing the impact of cultural specificity on film production and consumption. Topic to be specified in Class Schedule. May be repeated for a total of 9 units as topics vary.

CINE 402 Arab Cinema (Units: 3)
Prerequisites: Upper division standing; Cinema major or minor; or Middle East and Islamic Studies minor; CINE 340, CINE 341, or consent of instructor.
Arab history, themes, motifs, aesthetics and cultural traditions. (This course is offered as CINE 402 and MEIS 402. Students may not repeat the course under an alternate prefix.)

CINE 402GW Arab Cinema - GWAR (Units: 3)
Prerequisites: Upper division Cinema major; ENG 214 or equivalent with a grade of C- or better; or consent of instructor.
Examination of historical and contemporary debates about Arab cinemas; history of national film industries and film cultures in the region; consideration of contemporary experimental filmmakers and media artists such as Mona Hatoum, Akram Zaatari, and Mounir Fatmi. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

CINE 407 History and Film (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.
Examination of historical events as they are presented in film. Representative examples might include narrative, documentary, and experimental films. Topic to be specified in Class Schedule. May be repeated for a total of 6 units as topics vary.

CINE 408 Israeli Cinema (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Israeli cinema with critical readings. (This course is offered as JS 408 and CINE 408. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

CINE 409 Latina/o Cinema (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of Latino history using Latino themed and produced film. The power of stereotypes, global dissemination of film and examples of the ways in which Latin American and U.S. Latina/o filmmakers respond to stereotypes by creating cinematic counter-discourses. (This course is offered as LTNS 409 and CINE 409. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

CINE 410 Art and Film (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.
Consideration of art and the artist in historical context. How does film situate the artist within the fabric of a given culture? How do we situate an artist who makes films?

CINE 410GW Art and Film - GWAR (Units: 3)
Prerequisites: Upper division standing; Cinema major; ENG 214 or equivalent with a grade of C- or better; or consent of instructor.
Consideration of debates between film studies, art history, and visual studies. Focus on key film artists, such as Farocki, Weerasethakul, Marker, and Ackerman. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

CINE 423 Introduction to Digital Filmmaking (Units: 3)
Prerequisites: CINE 310 or CINE 360, consent of instructor.
The aesthetics and production techniques of filmmaking using digital tools and processes.

CINE 425 Art of Cinematography (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.
Survey of outstanding cinematographers and films in the world film history; examination of art, aesthetics, photography elements and cinematic techniques in cinematography.

CINE 430 Documentary Filmmaking Workshop (Units: 3)
Prerequisites: Restricted to Cinema major or minor; CINE 310, CINE 316, or equivalents; or consent of instructor.
Survey documentary production in a variety of non-fiction filmmaking techniques and practice. Emphasis on new media distribution and storytelling strategies for the deployment and impact of socially conscious documentaries. (Plus-minus letter grade only)

CINE 432 Drawing for Digital Animation (Units: 2)
Use of drawings to plan animation scenes and to communicate ideas that are central to the art of animation, such as line of action, pose, movement, and acting. Emphasis on gesture and movement.

CINE 441 Signs of Aliens: Semiotics of Film and Popular Culture (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
The sign of the alien, an element of popular culture, encompasses troubling ideologies such as xenophobia and racism. Through semiotics and cultural studies, alienation is examined as an aesthetic expression and value system reflected in immigration, race, sexuality, and more.
Course Attributes:
• Social Justice

CINE 442 Producing and Financing Films I (Units: 3)
Prerequisites: Restricted to upper division Cinema majors and minors; CINE 310.
Economics of production, budgeting, breakdowns, financing and contracts, distribution and exhibition, censorship, copyright, libel and slander, law of privacy, releases. Hands-on producing of senior thesis film project. First part of two-semester sequence with CINE 542. Culminating experience for producing-oriented students. (Plus-minus letter grade only)
CINE 454 Writing Short Films (Units: 3)
Prerequisites: Restricted to Cinema major or minor; CINE 200, CINE 202, CINE 204, CINE 211, CINE 212, or equivalents, with grades of C or better; ENG 214 or equivalent with grade of C- or better; or consent of instructor.
Exploration of visual and verbal screenwriting strategies for developing short films in both standard and experimental formats. [Formerly CINE 354]

CINE 456 Feature Screenwriting I (Units: 3)
Prerequisites: Cinema major or minor; CINE 356; or consent of instructor.
Practice in film writing, emphasizing story and plot dynamics, characterization, narration, dialogue, script forms, and alternatives. Analysis of current motion picture scripts. [Formerly CINE 355]

CINE 466 Animation III (Units: 3)
Prerequisites: CINE 362 and consent of instructor.
Workshop emphasizing completion of soundtracks, editing, and laboratory operations for projects. May be repeated for a total of 9 units. Extra fee may be required.

CINE 468 Advanced Animation Workshop (Units: 3)
Prerequisites: CINE 362 and consent of instructor.
Study, design, and execute a variety of visual effects. Aesthetic integration of effects into existing film projects and experimental animation. Laboratory. May be repeated for a total of 9 units.

CINE 500 Stop-Motion Animation (Units: 3)
Prerequisites: Upper division standing or CINE 310; restricted to Cinema majors and Animation minors.
Aesthetics and production of stop-motion and mixed-media animation. Practice using traditional and digital animation techniques for creative, cinematic storytelling. (Plus-minus letter grade only)

CINE 502 Experiments in Cinematic Form (Units: 3)
Prerequisites: CINE 340, CINE 341; or consent of instructor.
Focus on experimental cinematic forms, from radical experimental films emphasizing social aesthetic modes, periods, and artists, to contemporary explorations of forms outside the conventional cinematic infrastructure. Topic to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary.

CINE 506 Cinematheque Management (Units: 3)
Prerequisites: CINE 340, CINE 341; or consent of instructor.
Practical experience in presenting film and video offerings to the public. Program planning; promotion and publicity, house management and public relations. May be repeated for a total of 6 units.

CINE 508 Film Authorship (Units: 3)
Prerequisites: CINE 340, CINE 341; or consent of instructor.
A case study on directors, stars, studios, writers, producers or others who may be the creative force behind a given film. Topic to be specified in Class Schedule. May be repeated for a total of 9 units as topics vary.

CINE 510 Directing Visual Style (Units: 3)
Prerequisites: Upper division Cinema major; CINE 310 or equivalent; and consent of instructor.
Creative role of the director, manipulation of space and time, problems of continuity, script planning and blocking, visual style and authorship. Laboratory.

CINE 512 Sound Production for Cinema (Units: 3)
Prerequisites: Restricted to upper division Cinema major; CINE 310 or equivalent; consent of instructor.
Laboratory in aesthetics of field and studio recording. Practice in production recording, sound effects, narration, and foley production. Preparation of tracks and post-production manipulation of sound across film genres.

CINE 514 Performing for the Screen (Unit: 1)
Prerequisites: Upper division standing and consent of instructor.
Exploration and practice of issues related to performing for the camera. Instruction and critique for preparing scene work, engaging in rehearsals, and acting on-set. Laboratory. May be repeated for a total of 3 units.

CINE 515 Directing Actors (Units: 3)
Prerequisites: Restricted to upper division cinema major; CINE 310, CINE 316; and consent of instructor.
Creative role of director; focus on directing actors for character-driven work.

CINE 519 Soundstage Workshop (Unit: 1)
Prerequisites: CINE 310 or CINE 710 or equivalent and consent of instructor. Laboratory in lighting for film. Aesthetic and atmospheric effects of film lighting. Extra fee required. (CR/NC grading only)

CINE 520 Sound Post-Production for Cinema (Units: 3)
Prerequisites: Restricted to upper division Cinema major; CINE 310 or equivalent; consent of instructor.
Preparation and editing of multiple sound tracks. Recording and mixing of sound tracks for picture using file-based technologies.

CINE 521 Media Archaeology in Cinema (Units: 3)
Prerequisites: Restricted to Cinema major or minor; CINE 310 or CINE 710; or consent of instructor.
Exploration of the meaning, histories, and strategies of the creative re-use of media in cinema. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 522 Projects in Film Editing (Units: 3)
Prerequisites: CINE 310 or CINE 710, consent of instructor.
Techniques and aesthetics of film editing. Extra fee required. May be repeated for a total of 6 units.

CINE 523 Exploration in Interactive Cinema (Units: 3)
Prerequisites: CINE 310 or CINE 360, consent of instructor.
Conceptualization, programming, production, and presentation of cinema using interactive digital tools and processes. May be repeated for a total of 6 units.

CINE 524 Exploring Sound Design for Cinema (Units: 3)
Prerequisites: Restricted to upper division Cinema major; CINE 310 or equivalent; consent of instructor.
Examination of sound design for cinema focusing on computer-based technologies. Evaluation of sound/picture relationships.

CINE 525 Cinematography and Lighting (Units: 3)
Prerequisites: CINE 310 or CINE 710 or equivalent, consent of instructor.
Skills and aesthetics of cinematography and lighting. Extra fee required.
CINE 526 Optical Printing (Units: 3)
Prerequisites: CINE 310 or CINE 710 or equivalent, consent of instructor.

Optical printing for motion pictures.

CINE 527 Documentary for Health and Social Justice I (Units: 6)
Prerequisites: ENG 214 or equivalent; consent of instructor.

Hands-on collaborative production of social justice and health documentary films. Preproduction research includes identifying issues and community participants. Screening, critiquing, and editing. May be repeated for a total of 12 units.
(This course is offered as CINE 527 and H ED 527. Students may not repeat the course under an alternate prefix.)

CINE 528 Documentary for Health and Social Justice II (Units: 6)
Prerequisites: ENG 214 or equivalent, CINE 527 or H ED 527; consent of instructor.

Production of documentary films with a focus on issues related to social justice and health. Includes research to identify salient issues and community participants. Develops proficiency in various stages of documentary filmmaking (pre-production, production, post-production). Culminates in public screening of film projects. Lecture, 3 units; activity, 3 units.
(This course is offered as CINE 528 and H ED 528. Students may not repeat the course under an alternate prefix.)

CINE 529 Experimental Filmmaking (Units: 3)
Prerequisites: CINE 310 or CINE 710 or equivalent, consent of instructor.

Exploration of experimental film aesthetics, techniques, and practices. Projects in varied media and methods.

CINE 530 Digital Cinematography (Units: 3)
Prerequisites: Restricted to upper division Cinema major; consent of instructor.

Skills, techniques, and aesthetics in digital cinematography. Practice in fields and studio digital cinematography and lighting. Post-production digital workflow and imaging manipulation. May be repeated for a total of 6 units.

CINE 531 Modeling/Rigging I (Units: 2)
Introduction to the fundamental concepts of modeling and rigging for a computer generated production, with a strong focus on modeling.

CINE 532 International Documentary Workshop (Units: 6)
Prerequisites: Upper division standing, prior approval of project proposal.

A cross-cultural student program with the collaboration of comparable film or relevant cultural or academic programs or established community organizations in other countries. Students will broaden their cultural vision and develop their cinematic techniques in a global context. May be repeated for a total of 12 units.

CINE 533 Modeling/Rigging II (Units: 2)
Prerequisite: CINE 380.

Advanced concepts of modeling and rigging for a CC production, such as character rig, facial rig, blend shapes, expressions and driven keys. Techniques to build and rig characters.

CINE 534 Digital Animation Level III: Character Animation (Units: 3)
Prerequisites: CINE 380, CINE 530, CINE 532.

Focus on character animation, including pantomime, face expressions and dialogue for digital characters. Assignments introduce students to a more detailed investigation of character animation. More advanced concepts such as rhythm, contrast, phrasing, meaning, and energy will be carefully studied through lectures, assignments and class critique of student work.

CINE 535 Lighting/Texturing I (Units: 2)
Prerequisite: CINE 380.

Introduction to the fundamental concepts and practices of lighting and texturing for a computer generated production; concepts such as 3 point studio lighting and use of color and contrast; lighting as a way to enhance story points and an excellent aid to good storytelling in Animation.

CINE 536 Studio Class (Units: 3)
Prerequisites: CINE 430, CINE 530, CINE 531, CINE 532, CINE 533, CINE 534, CINE 535, and CINE 537.

Using knowledge from previous classes, work toward the completion of a short animated sequence. Work with advanced acting for two characters, model and/or rig props and other models needed for the sequence. Create the visual look for the storytelling by placing lights textures and materials.

CINE 537 Lighting/Texturing II (Units: 2)
Prerequisites: CINE 380, CINE 535.

Advance knowledge of lighting, rendering and texturing, working with animated scenes and moving objects, and using lighting as a way to convey and emphasize scene emotional tone, character’s mood and story points. The advanced use of color, shadows, shape, motion blur and contrast.

CINE 538 Digital Animation Level I: Mechanics of Movement (Units: 3)
Prerequisite: CINE 380.

Focus on mechanics of movement and principles of animation. Developing a critical eye for movement and animation, and progressively getting comfortable with the interface and practices of Maya. [Formerly CINE 530-CEL only]

CINE 539 Digital Animation Level II: Body Mechanics (Units: 3)
Prerequisites: CINE 380 and CINE 532 (formerly CINE 530-CEL only).

Advanced study of principles of animation. Introduction to acting; short films and scenes of feature-animated and live-action feature films will illustrate the many concepts studied. [Formerly CINE 532-CEL only]

CINE 540 Issues in Film Theory (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.

Advanced study of selected methods or issue in film theory. Topics to be specified in Class Schedule. May be repeated for a total of 6 units as topics vary. (Plus-minus letter grade only)

CINE 541 Race, Sex, and Identity Online (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent.

Analysis of the relationship between race, sex, and social identity online. Examination of race, gender, sexuality, capitalism, and the politics of social resistance as manifested in online media.
CINE 542 Producing and Financing Films II (Units: 3)
Prerequisites: Restricted to upper division Cinema major or minor; CINE 442, or consent of instructor.

Examines the economics of post-production, marketing, distribution and exhibition of independent films. Explores the role of the producer during post-production stage of independent filmmaking. Hands-on experience with senior thesis film. Part two of two-semester sequence (following CINE 442). (Plus-minus letter grade)

CINE 551 2D Digital Animation (Units: 3)
Prerequisites: Upper division standing and consent of instructor. Priority enrollment for Cinema majors.

Exploring the aesthetics, structures and techniques of experimental, documentary and narrative 2D digital animation.

CINE 554 Writing for Documentary and Nonfiction (Units: 3)
Prerequisites: Upper division Cinema major or minor; CINE 456; or consent of instructor.

Teaches the writing of a script for a documentary film project. Examines research process for documentary concept. Develops techniques for writing treatments and creating visual plans. Explores methods of incorporating interviews and other nonfiction devices.

CINE 556 Feature Screenwriting II (Units: 3)
Prerequisites: Cinema major or minor; CINE 456.

Advanced practice in conceptualizing and writing scripts. [Formerly CINE 455]

CINE 568 Creating Story Worlds (Units: 3)
Prerequisites: Restricted to Cinema majors; CINE 356; or consent of instructor.

Focus on the development of creative intellectual properties for screenwriting and other media to produce deep, coherent and flexible story worlds that can generate successful narratives across platforms.

CINE 595 Visual Anthropology I (Units: 6)
Prerequisites: Restricted to Anthropology or Cinema major; ANTH 120, ANTH 300; or consent of instructor.

Introduction to ethnographic digital video production, including methods of ethnographic fieldwork, creation of field notes and research design; basics of digital video planning, production and editing. Classwork 3 units; laboratory and fieldwork 3 units. [CSL may be available] (This course is offered as ANTH 595 and CINE 595. Students may not repeat the course under an alternate prefix.)

CINE 596 Visual Anthropology II (Units: 4)
Prerequisites: Restricted to Anthropology or Cinema major; ANTH 595 or CINE 595; or consent of instructor.

Advanced filmmaking-based applied anthropological fieldwork, collaboration, and digital post-production techniques. Students complete a video for which they conducted research during the previous semester. Classwork, 2 units; laboratory and fieldwork, 2 units. [CSL may be available] (This course is offered as ANTH 596 and CINE 596. Students may not repeat the course under an alternate prefix.)

CINE 610 Senior Critical Studies Seminar (Units: 3)
Prerequisites: CINE 211, CINE 212, CINE 372, with grades of C or better.

Original research, seminar reports, close analysis, Refining critical skills, developing project outline for work to be produced within an independent studies format. (Plus-minus letter grade only)

CINE 620 Advanced Fiction Filmmaking I (Units: 3)
Prerequisites: Restricted to upper division Cinema majors; CINE 310 or equivalent; consent of instructor. Concurrent enrollment in CINE 624; portfolio required. CINE 510 and/or CINE 515, CINE 346 and/or CINE 454 are recommended.

Development and production of senior thesis fiction film; culminating experience for Fiction Emphasis. Extra fee required. (Plus-minus letter grade only)

CINE 622 Advanced Fiction Filmmaking II (Units: 3)
Prerequisites: Restricted to upper division Cinema majors; CINE 620; consent of instructor. Concurrent enrollment in CINE 624; portfolio required.

Post-production phase (editing, sound design, grading, mixing) of senior thesis fiction film. Extra fee required. (Plus-minus letter grade only)

CINE 623 Exploration in Cinema as an On-Line Medium (Units: 3)
Prerequisites: CINE 310 or CINE 360, consent of instructor.

Conceptualization, programming, production, and presentation of cinema on the Internet, using digital tools and processes. May be repeated for a total of 6 units.

CINE 624 Advanced Production Crafts (Unit: 1)
Prerequisites: Restricted to upper division Cinema major; concurrent enrollment in CINE 620 or CINE 622.

Use of film-making equipment and materials. Development of advanced production skills and techniques. Laboratory. May be repeated for a total of 2 units. (Plus-minus letter grade)

CINE 625 Post Production Workshop (Units: 1-3)
Prerequisites: CINE 310 or CINE 710, consent of instructor.

Post production workshop for both advanced undergraduate and graduate students who need to complete works-in-progress. Students work individually editing, building soundtracks, preparing their projects for mixing and conforming, and following the required steps in post producing independent films. May be repeated for a total of 6 units. (CR/NC grading only)

CINE 630 Workshop in Experimental Documentary (Units: 3)
Prerequisites: Restricted to upper division Cinema major; CINE 310 or CINE 710; consent of instructor.

Exploration of experimental film practices in nonfiction.

CINE 640 Advanced Documentary Production Workshop (Units: 3)
Prerequisites: Upper division Cinema major or minor; CINE 430, CINE 527; or consent of instructor.

Development, pre-production, production, and post-production of senior non-fiction filmmaking project.
CINE 650 Filmmaking Master Class (Unit: 1)
Prerequisites: Restricted to upper division Cinema major; CINE 310, CINE 316 or equivalent; consent of instructor.
Exploring and conceptualizes a select dimension of the craft of filmmaking (pre-production, production, or post-production) as a professional endeavor. Introduction of the role of collaboration in filmmaking; strategies for incorporating critique and feedback into different stages of filmmaking. May be repeated for a total of 4 units in any combination of CINE 325, CINE 326, and CINE 650 as topics vary. (CR/NC grading only) [Formerly CINE 324]

CINE 651 Experimental Animation (Units: 3)
Prerequisites: Upper division standing, consent of instructor. Priority enrollment for Cinema students.
Studies in the aesthetics, structures, and production techniques of experimental and auteur animated films.

CINE 652 Documentary Animation (Units: 3)
Prerequisites: Upper division Cinema major or minor; CINE 310, CINE 316; or consent of instructor.
Exploration of contemporary practices of animation in documentary cinema.

CINE 654 Writing and Performing in Film and Theatre (Units: 3)
Prerequisites: Upper division Cinema majors and minors; TH A 230 or CINE 454 or CINE 456 or equivalent; or consent of instructor.
Workshop brings each student through practical hands-on exercises in writing, directing and working with actors. [Formerly CINE 555] (This course is offered as CINE 654 and TH A 558. Students may not repeat the course under an alternate prefix.)

CINE 656 Screenwriting Workshop (Units: 3)
Prerequisites: Cinema major or minor; CINE 556.
Advanced projects in film writing. Writing of 60 minutes or longer screenplay, analysis, and evaluation of works in progress. May be repeated for a total of 6 units. [Formerly CINE 655]

CINE 660 3D Computer Animation (Units: 3)
Prerequisites: Upper division standing, consent of instructor.
Developing technical and conceptual skills related to modeling, motion choreography, and rendering. May be repeated for a total of 9 units.

CINE 661 Intermediate 3D Computer Animation (Units: 3)
Prerequisites: CINE 360, CINE 660; or consent of instructor.
Developing intermediate technical and conceptual skills in 3D computer animation. May be repeated for a total of 9 units.

CINE 685 Projects in Teaching in Cinema (Units: 1-3)
Prerequisites: Cinema major, consent of instructor.
Teaching experiences in cinema in production, animation, studies and/or history, through assigned instructional projects as classroom aides. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

CINE 690 Production Practice (Units: 3)
Prerequisites: Upper division Cinema major, consent of instructor.
Advanced production practice in which students propose and carry out individual projects. Students act as screenwriters, directors, editors, and/or producers. Semester-based goals are approved and supervised by course instructor. May be repeated for a total of 9 units.

CINE 692 Internship (Units: 3)
Prerequisites: Upper division standing, consent of instructor.
Experience in a special field. 100+ hours of field experience in cinema-related activities under the supervision of professionals. May be repeated for a total of 6 units. (CR/NC grading only)

CINE 695 Independent Critical Studies (Units: 3)
Prerequisites: CINE 340, CINE 341, or consent of instructor.
Independent studies for qualified students who wish to pursue research and scholarly work under faculty supervision. May be repeated for a total of 9 units.

CINE 699 Independent Study (Units: 1-3)
Prerequisites: Upper division Cinema major or minor; CINE 200, CINE 202, CINE 204, CINE 211, CINE 212, with grades of C or better; or consent of instructor.
Selected projects in cinema studies or production. May be repeated for a total of 3 units.

CINE 700 Introduction to Graduate Studies (Units: 3)
Prerequisite: Restricted to graduate students in M.A. in Cinema Studies.
Orientation to graduate study; introduction to the professional standards and practices of cinema discipline; survey of cinematic and media culture theory. Development of a tentative master's thesis forms the primary basis for written work. (Plus-minus letter grade only)

CINE 701 Creative Process I (Units: 3)
Prerequisites: Restricted to graduate students in M.F.A. in Cinema; concurrent enrollment in CINE 710, CINE 711, CINE 721.
Basic elements of film writing and design: conceptualization, idea development, scripting, storyboarding, composing/staging for the camera, and image gathering.

CINE 702 Creative Process II (Units: 3)
Prerequisites: Restricted to graduate students in Cinema; CINE 701; concurrent enrollment in CINE 712, CINE 722.
Continuation of CINE 701. Emphasizing writing and design for a specific film project and basic principles of writing a research proposal.

CINE 710 Production Practice I (Units: 3)
Prerequisites: Admission to M.F.A. in Cinema; concurrent enrollment in CINE 701, CINE 711, CINE 721.
Beginning graduate course in cinematography and lighting. Use of film stocks, cameras, lenses, filters, light meters, and lights as well as screen direction, camera composition, and movement.

CINE 711 Production Practice II (Units: 3)
Prerequisites: Restricted to graduate students in Cinema; concurrent enrollment in CINE 701, CINE 710, CINE 721.
Beginning graduate course in editing and sound for film. Processes and procedures of picture and sound editing. Field, studio, and post-production sound for motion pictures. Problems in design and the production of meaning.

CINE 712 Production Practice III (Units: 3)
Prerequisites: CINE 701, CINE 710, CINE 711, CINE 721; concurrent enrollment in CINE 722.
Continuation of CINE 710 and CINE 711. Refinement of basic filmmaking skills and processes. Production of required first-year M.F.A. project.
CINE 713 Animation Workshop (Units: 3)
Prerequisites: CINE 360, CINE 362, consent of instructor.
Aesthetics of animation and production of a short animated film using film or computer techniques. May be repeated for a total of 9 units.

CINE 715 Cinematography Workshop (Units: 3)
Prerequisites: Restricted to graduate students in Cinema; CINE 710, CINE 530, or CINE 525.
Exploration and achievement of the next level of esthetics and techniques in cinematography and lighting through a series of masterpiece examinations, hands-on production workshops, cinematography master classes and industry practices. Projects in up-to-date digital technology. (Plus-minus letter grading only)

CINE 720 Critical Paradigms and the Cinematic (Units: 3)
Prerequisite: Restricted to graduate students in Cinema.
Approaches to the cinematic form through critical paradigms such as theories of the postmodern, post-colonial theory, structuralism/post-structuralism, systems theory, posthumanist theories. (Plus-minus letter grading only)

CINE 721 Cinematic Documentary (Units: 3)
Prerequisite: Admission to the M.A. Cinema Studies or M.F.A. Cinema.
Issues and concepts related to non-fiction cinematic forms such as documentary, or ethnographic film. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 722 Independent Cinema (Units: 3)
Prerequisite: Restricted to graduate students in M.A. Cinema Studies or M.F.A. Cinema.
The tradition of independent narrative filmmaking: narrative structure, European art cinema, Third cinema, and/or American independent cinema. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 723 Cinema Forms and Aesthetics (Units: 3)
Prerequisite: Restricted to graduate students in M.A. Cinema Studies or M.F.A. Cinema.
Theoretical and critical perspectives on dominant traditions and major modes of cinema and/or media: classical, film narrative, documentary; avant-garde cinema and media. May be repeated for a total of 6 units.

CINE 726 Cinema Theory II (Units: 3)
Prerequisites: Restricted to second-year M.F.A. students; CINE 761, CINE 762; concurrent enrollment in CINE 763, CINE 770.
Combines the practical aspects of portfolio and teaching preparation with the theoretical concerns generated from thesis projects and questions of pedagogy.

CINE 727 Cinematic Styles, Forms, and Movements (Units: 3)
Prerequisite: Admission to M.A. Cinema Studies, M.F.A. Cinema, or Women and Gender Studies.
Examination of established cinematic styles, forms, and movements such as how does style affect content? How do movements emerge? How do forms change over time? What relationship does a particular movement bear to narrative storytelling, documentary expression, or avant-garde practice? May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 728 Cinema Histories (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. Cinema program.
Examination of cinematic traditions through historical methods with an emphasis on historiographic research, modes of argumentation, principles of causality, narrative, and rhetoric. May be repeated for a total of 6 units. (Plus-minus letter grading only)

CINE 730 Experimental Cinema Workshop (Units: 3)
Prerequisite: Restricted to students in M.A. Cinema Studies or M.F.A. Cinema program, or consent of instructor.
Aesthetics of avant-garde cinema and production of a short film using experimental techniques. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 740 Workshop in Documentary Production (Units: 3)
Prerequisite: Restricted to students in M.F.A. in Cinema program.
Hands-on skills and guidance in documentary production. Each student directs and produces their own film, and crews on others. Technical production skills, critical analysis of non-fiction films, and documentary voice for creative expression. (Plus-minus letter grade only)

CINE 741 Cinema and the City (Units: 3)
Prerequisite: Restricted to students in M.A. Cinema Studies or M.F.A. Cinema program.
Issues of the representation of the city in cinema, urban space has proven crucial to genre films, as well as documentaries and the avant-garde. Utopic and dystopic elements of urban life receive close scrutiny. (Plus-minus letter grade only)

CINE 743 Sexuality in the Cinema (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. in Cinema program.
Theories and representations of sexualities in cinema from various contexts, traditions, and histories such as queer and LGBTQ subjectivities, practices such as asexuality, BDSM and polyamory, and the study of cinema as an apparatus for the production of intimacy. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 747 Post-colonial Cinema (Units: 3)
Prerequisite: Restricted to students in M.A. Cinema Studies or M.F.A. Cinema program.
Examination of post-colonial theories, including notions of modernity, nationalism, post-nationalism, hybridity, subalternity, and the politics of differences, and how they can be applied to critical thinking in cinema and media. Focus on Hollywood cinema and third world cinema. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 748 Cinema and Cultural Studies (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. in Cinema program.
Examination of the field of Cultural Studies and its influence on cinema and media studies. Students will read both founding theoretical texts and contemporaneous scholarship. Emphasis on intersecting structures of power, including class, nation, gender, race, and sexuality. May be repeated for a total of 6 units. (Plus-minus letter grading only)
CINE 749 Critical Practices (Units: 3)
Prerequisite: Restricted to students in M.A. Cinema Studies or M.F.A. Cinema program.
Exploration of the relationship between critical theory/practice and digital media practices; familiarization with the emerging possibilities for critical work made possible by digital media. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 755 Feature Screenwriting (Units: 3)
Prerequisites: Restricted to student in M.A. Cinema Studies or M.F.A. Cinema program; introductory screenwriting; consent of instructor.
Advanced screenwriting leading to the completion of a feature-length original script. The development of ideas, premise pitching, and disciplined writing practice. May be repeated for a total of 6 units. (Plus-minus letter grade only)

CINE 761 Directing for Cinema (Units: 3)
Prerequisites: Completion of first-year M.F.A. requirements.
Advanced production course that emphasizes students' individual ideas, how to put them into moving images/sound/text, and how/why these inform their evolving creative work.

CINE 762 Advanced Cinematography and Lighting (Units: 3)
Prerequisites: Restricted to second-year M.F.A. students; CINE 701, CINE 710, CINE 711, CINE 712, CINE 721, CINE 722.
Working cinematographers, Steadicam operators, gaffers, and other crew people give master classes in cameras, production and lighting techniques, and industry practices. Directors, digital imaging technicians, and lighting company reps visit the classroom. Students complete projects in video and 16mm film.

CINE 763 Projects in Advanced Editing (Units: 3)
Prerequisites: Restricted to second-year M.F.A. students; CINE 701, CINE 710, CINE 711, CINE 712, CINE 721, CINE 722.
Aesthetic and technical aspects of editing and post-production in diverse cinema genres. Current technical strategies for editing picture and sound applied to original film or video designed by students. (Plus-minus letter grade only)

CINE 765 Internship (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. in Cinema program.
Field experience with production entities and organizations within the cinema industry. May be repeated once with consent of instructor. (CR/NC grading only)

CINE 770 Film Production Research (Units: 3)
Prerequisites: Restricted to second-year M.F.A. students; CINE 724, CINE 761, CINE 762; concurrent enrollment in CINE 726, CINE 763.
Focuses on the development of the students' individual vision and aesthetics and its realization through research, script development, and production planning for the thesis film.

CINE 813 Production Practice in Animation (Units: 3)
Prerequisites: Approved MFA Cinema students, consent of instructor.
Developing skills in one or more modes of animation. Individual and/or group projects. May be repeated for a total of 9 units.

CINE 820 Seminar in Critical Theory (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. in Cinema program.
Advanced study of critical theory specific to the cinematic form usually featuring a single theorist such as Bazin, Deleuze, Metz, Mulvey, and Zizek, or a single theme such as Reception, Modernity, Performance and Realism. May be repeated for a total of 6 units. (Plus-minus letter grading only)

CINE 823 Curation and Cinema (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. Cinema program or Museum Studies M.A. program.
Examination of curatorial practice and the role of curators in contemporary culture; the relation between moving images and contemporary art practices; projection, display and exhibition of time-based media in and beyond film events and art institutions. (Plus-minus letter grading only)
(This course is offered as CINE 823 and M S 823. Students may not repeat the course under an alternate prefix.)

CINE 840 Professional Development and Training (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. in Cinema program.
Practicum designed to prepare M.A. and M.F.A. students for doctoral and professional careers.

CINE 852 Directed Experience in Film Education (Units: 3)
Prerequisites: Admission to the M.A. or M.F.A. in Cinema, consent of instructor.
Directed experience in the teaching of film courses. Students assist in course preparation and instruction and receive supervision from the instructor in charge. May be repeated for a total of 6 units.

CINE 894 Creative Work Project (Units: 3)
Prerequisites: CINE 770, approval of thesis project proposal, consent of instructor, approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

CINE 897 Research Projects in Cinema Studies (Units: 3)
Prerequisite: Restricted to students in M.A. Cinema program; CINE 700; consent of instructor.
Methods of research for individual graduate projects in cinema studies. Development of a problem of interest to the student.

CINE 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and department chair or graduate coordinator, approval of Advancement to Candidacy (ATC) for Master of Arts in Cinema and Culminating Experience (CE) forms by Graduate Studies.
Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

CINE 899 Independent Study (Units: 3)
Prerequisites: Consent of supervising instructor and department chair or graduate coordinator.
Supervised individual projects in various aspects of the motion picture field. May be repeated for a total of 6 units.
Classical Archaeology (CLAR)

CLAR 250 Archaeology of the Ancient World (Units: 3)
Prerequisite: ENG 114 or equivalent.
Archaeology of the ancient world. Artistic and cultural achievements of Egypt, the Ancient Near East, Greece and Rome, and interaction of the art with society.
Course Attributes:
- C1: Arts
- Global Perspectives

CLAR 270 Introduction to Greek and Roman Coins (Units: 3)
Introduction to the study of Greek and Roman coins with an emphasis on iconography, economic role, and historical context.

CLAR 324 Greek and Roman Coins in Historical Context (Units: 3)
Prerequisite: Upper division standing or consent of instructor
Exploration of the production, social function, and iconography of Greek and Roman coins and how they can help write the history of the ancient world. Study of actual ancient coins in the Lindgren Coin Collection, which includes almost 3000 silver and bronze coins. (This course is offered as CLAR 324 and HIST 324. Students may not repeat the course under an alternate prefix.)

CLAR 420 Greek Art and Archaeology (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Greek material culture (art, architecture, city planning, etc.) from the Bronze Age to second century CE. (This course is offered as CLAR 420 and ART 401. Students may not repeat the course under an alternate prefix.)

CLAR 425 Roman Art and Archaeology (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Roman material culture (art, architecture, city planning, etc.) from the foundation of Rome to the reign of Justinian. (This course is offered as CLAR 425 and ART 402. Students may not repeat the course under an alternate prefix.)

CLAR 500 Ancient Egyptian Civilization (Units: 3)
Prerequisite: ENG 214 or equivalent.
Ancient Egyptian civilization from Pre-dynastic through Ptolemaic times: art, archaeology, literature, and religion with research use of Sutro Egyptian Collection.
Course Attributes:
- UD-C: Arts and/or Humanities

CLAR 502 Ancient Egyptian Language and Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor. Previous foreign language study strongly recommended.
Introduction to signs, vocabulary, grammar and syntax of Middle Egyptian language; learn to read texts from funerary stelae, coffins, and short stories.

CLAR 530 Introduction to Greek Vase Painting (Units: 3)
Prerequisite: CLAR 250 or CLAR 420 or CLAR 425 or consent of instructor.
Introduction to ancient Greek vase painting.

CLAR 531 Greek Sculpture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Development of Greek sculpture from the late 8th century through the 2nd century BCE. Emphasis on stylistic analysis, formal development, and interpretation both of free-standing figures and programmatic architectural sculpture as social and political documents.

CLAR 532 Greek and Roman Wall Painting (Units: 3)
Prerequisite for CLAR 832: Graduate standing in Classics or consent of instructor.
Prerequisite for CLAR 532: CLAR 250 or CLAR 420 or CLAR 425 or consent of instructor.
Examination of the chronological development of Greek and Roman wall painting, focus on its architectural context and sociocultural significance. (CLAR 832/CLAR 332 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CLAR 535 Ancient Sicily and Southern Italy (Units: 3)
Prerequisite for CLAR 835: Graduate standing or consent of instructor.
Prerequisite for CLAR 535: ENG 214 or equivalent.
Archaeological, historical, cultural study of Sicily and southern Italy from Bronze Age to Roman Empire, including material from Greek city-states. Roman period and indigenous peoples. (CLAR 835/CLAR 535 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CLAR 540 Greece and the Near East (Units: 3)
Prerequisite for CLAR 840: Graduate standing or consent of instructor.
Prerequisite for CLAR 540: ENG 214 or equivalent.
Study of the intersection of the historiographical traditions and material records of ancient Greece and the Near East. (CLAR 840/CLAR 540 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CLAR 545 Pompeii & Herculaneum: Cities in the Shadow of Vesuvius (Units: 3)
Prerequisite for CLAR 845: Graduate standing or consent of instructor.
Prerequisite for CLAR 545: CLAR 250 or consent of instructor.
Core aspects of archaeology, daily life, art and history in the ancient cities of Pompeii and Herculaneum. (CLAR 845/CLAR 545 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CLAR 555 Etruscan Art and Archaeology (Units: 3)
Prerequisite for CLAR 855: Graduate standing in classics or consent of instructor.
Prerequisite for CLAR 555: CLAR 250 or CLAR 420 or CLAR 425 or consent of instructor.
Examination of the material culture of the Etruscans in its historical context from the Late Bronze Age until the early 1st c. CE. (CLAR 855/CLAR 555 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
CLAR 565 Monuments of the Eternal City: Ancient Rome (Units: 3)
Prerequisite for CLAR 865: Graduate standing or consent of instructor.
Prerequisite for CLAR 565: ENG 214 or equivalent.

Study of important monuments of Rome as evidence of its historical-
political and artistic development from the 8th Century B.C.E. to the Fall
of the Empire in the 5th Century C.E.
(CLAR 865/CLAR 565 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 570 Archaic Greece (Units: 3)
Prerequisite for CLAR 870: Graduate standing or consent of instructor.
Prerequisite for CLAR 570: CLAR 250 or equivalent or consent of
instructor.

Investigation of material culture of Archaic Greece. Topics may include
colonization, coinage, agriculture, development of sanctuaries, origin
of new styles of sculpture & painting, burial practices, rise of the polis.
(CLAR 870/CLAR 570 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor.

Supervised study of a special archaeological problem to be selected by
the student. May be repeated for a total of 6 units.

CLAR 800 Theory and Methods of Classical Archaeology (Units: 3)
Prerequisite: Graduate standing in the Classics M.A. program or consent
of instructor.

Survey of important theories and methods in the practice of classical
archaeology; discussion of specific case studies; some hands-on
practice.

CLAR 830 Greek Vase Painting (Units: 3)
Prerequisite: CLAR 250 or CLAR 420 or CLAR 425 or consent of instructor.

Advanced study in ancient Greek vase painting.

CLAR 832 Greek and Roman Wall Painting (Units: 3)
Prerequisite for CLAR 832: Graduate standing in Classics or consent of
instructor.
Prerequisite for CLAR 532: CLAR 250 or CLAR 420 or CLAR 425 or
consent of instructor.

Examination of the chronological development of Greek and Roman wall
painting, focus on its architectural context and sociocultural significance.
(CLAR 832/CLAR 332 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 835 Ancient Sicily and Southern Italy (Units: 3)
Prerequisite for CLAR 835: Graduate standing or consent of instructor.
Prerequisite for CLAR 535: ENG 214 or equivalent.

Archaeological, historical, cultural study of Sicily and southern Italy from
Bronze Age to Roman Empire, including material from Greek city-states.
Roman period and indigenous peoples.
(CLAR 835/CLAR 535 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 840 Greece and the Near East (Units: 3)
Prerequisite for CLAR 840: Graduate standing or consent of instructor.
Prerequisite for CLAR 540: ENG 214 or equivalent.

Study of the intersection of the historiographical traditions and material
records of ancient Greece and the Near East.
(CLAR 840/CLAR 540 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 845 Pompeii & Herculaneum: Cities in the Shadow of Vesuvius
(Units: 3)
Prerequisite for CLAR 845: Graduate standing or consent of instructor.
Prerequisite for CLAR 545: CLAR 250 or consent of instructor.

Core aspects of archaeology, daily life, art and history in the ancient cities
of Pompeii and Herculaneum.
(CLAR 845/CLAR 545 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 855 Etruscan Art and Archaeology (Units: 3)
Prerequisite for CLAR 855: Graduate standing in classics or consent of
instructor.
Prerequisite for CLAR 555: CLAR 250 or CLAR 420 or CLAR 425 or
consent of instructor.

Examination of the material culture of the Etruscans in its historical
context from the Late Bronze Age until the early 1st c. C.E.
(CLAR 855/CLAR 555 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 865 Monuments of the Eternal City: Ancient Rome (Units: 3)
Prerequisite for CLAR 865: Graduate standing or consent of instructor.
Prerequisite for CLAR 565: ENG 214 or equivalent.

Study of important monuments of Rome as evidence of its historical-
political and artistic development from the 8th Century B.C.E. to the Fall
of the Empire in the 5th Century C.E.
(CLAR 865/CLAR 565 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 870 Archaic Greece (Units: 3)
Prerequisite for CLAR 870: Graduate standing or consent of instructor.
Prerequisite for CLAR 570: CLAR 250 or equivalent or consent of
instructor.

Investigation of material culture of Archaic Greece. Topics may include
colonization, coinage, agriculture, development of sanctuaries, origin
of new styles of sculpture & painting, burial practices, rise of the polis.
(CLAR 870/CLAR 570 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

CLAR 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate major adviser and supervising faculty
member.

Study is planned, developed, and completed under the direction of a
member of the department. Open to graduate students of demonstrated
ability to do independent work. Enrollment by petition (form available in
the department office). May be repeated for a total of 6 units.
Classics (CLAS)

Also see

- Classic Archeology (p. 1450)
- Greek (p. 1578)
- Latin (p. 1651)

CLAS 210 Introduction to Greek and Roman Literature (Units: 3)
Introduction to the main genres of Greek and Roman literature (epic, lyric, historiography, drama, philosophy, letters, pastoral, etc.) through close readings of select examples of each. Emphasis on the social and cultural context of these works of literature.

Course Attributes:

- C3: Humanities: Literature

CLAS 230 Ancient Epic Tales (Units: 3)
Prerequisite: ENG 214 or equivalent.

Epic literature of ancient Mediterranean world. Mythic and heroic themes, narrative techniques, historic and social background, and cross-cultural influences. [Formerly CLAS 330]

Course Attributes:

- C3: Humanities: Literature

CLAS 240 Greek and Roman Drama (Units: 3)
Introduction to some masterpieces of Greek and Roman tragedy and comedy, with an emphasis on close reading and appreciation of historical and performative context.

Course Attributes:

- C3: Humanities: Literature
- Social Justice

CLAS 260 Greek and Roman Mythology (Units: 3)
Prerequisite: ENG 214 or equivalent.

Classical myths that furnish background material for Western literary and cultural traditions; nature, function, and interpretation of myth.

Course Attributes:

- C2: Humanities
- Global Perspectives

CLAS 280 The Ancient World in Film (Units: 3)
Prerequisite: ENG 114 or equivalent.

Examination of how ancient Greek and Roman myth and history are represented in film, often as a way of looking critically at modern society and its values. (This course is offered as CLAS 280 and CINE 280. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- C2: Humanities

CLAS 400GW Approaches to the Classics - GWAR (Units: 3)
Prerequisites: ENG 214 with a grade of C- or better, at least one CLAR or CLAS course.

Introduction to disciplinary methodologies and writing in the Classics.

Course Attributes:

- Graduation Writing Assessment

CLAS 410 Ancient Greek Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.

Introduction to ancient Greek literature in its social and historical context. (This course is offered as CLAS 410 and HUM 401. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- UD-C: Arts and/or Humanities

CLAS 415 Ancient Roman Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.

Introduction to ancient Roman literature in its social and historical context. (This course is offered as CLAS 415 and HUM 402. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- UD-C: Arts and/or Humanities

CLAS 420 Classics and the Environment (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of the duality of humanity and the natural environment through Classical texts and reception. Development of the ability to analyze the origin and history of human discourses about nature in literary, social, cultural, political, economic contexts; understanding mutual dependency of human perspective and natural environment. (Not for students who have completed CLAS 421.)

Course Attributes:

- Environmental Sustainability
- Global Perspectives

CLAS 421 Classics and the Environment at the SFSU Sierra Nevada Field Campus (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.

Examining humanity and natural environment through Classical texts and their reception; analyzing origin and history of human discourses about nature in literary, social, cultural, political, and economic contexts; understanding mutual dependency of human perspective and natural environment. Taught summers at the Sierra Nevada Field Campus. (Not for students who have completed CLAS 420.)

CLAS 490 History of Ideas in the Ancient Classical World (Units: 3)
Prerequisite: ENG 214 or equivalent.

Intellectual and cultural history of the ancient classical world of Greece and Rome from its beginnings to the death of Saint Augustine; evolution of ideas, their origins, interconnections, impact, and influence.

Course Attributes:

- UD-C: Arts and/or Humanities
CLAS 510 The Byzantine Empire (Units: 3)
Prerequisite: ENG 214 or equivalent.
Political, social, economic, cultural history of Byzantine Empire from 7th to 15th centuries A.D.; relations of Byzantium with Germanic, Slavic, Arabic, and Turkic-speaking neighbors. (This course is offered as MGS 510, CLAS 510, HIST 326. Students may not repeat the course under an alternate prefix.)

CLAS 530 Gender and Sexuality in Ancient Greece and Rome (Units: 3)
Prerequisite: ENG 214 or equivalent.
Role of gender and sexuality in the ancient world. Areas of inquiry: women's bodies and social roles; homosexuality; and the socialization of adolescents into adult gender/sex roles. (This course is offered as CLAS 530 and SXS 530. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

CLAS 582 Tales from Ancient India: Hinduism and Buddhism (Units: 3)
Prerequisite: ENG 214.
Study of ancient Indian (Hindu and Buddhist) culture, religion, and literature. Examination of epics, plays, devotional and love poetry from Sanskrit and other Indian languages. Examination of family, gender, and patriarchy; kingship and power; heroism, love, war; ethics and devotion. (This course is offered as HIST 582, HUM 582 and CLAS 582. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

CLAS 690 Editing and Publishing the Classics Journal (Units: 1-3)
Prerequisite: Major/minor in classics or department consent.
Supervised experience in editing and production of journal of student work. Credit not applicable to major/minor fields in classics. May be repeated for a total of 6 units. (CR/NC grading only.)

CLAS 697 Honor's Thesis (Units: 3)
Prerequisites: Major in classics and consent of department.
Tutorial leading to an honor's project or thesis on special research topic to be determined jointly by student and faculty member. (CR/NC grading only)

CLAS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of major adviser and supervising faculty member.
Study is planned, developed, and completed under the direction of a member of the department. Open only to students who have demonstrated ability to do independent work in Classics. May be repeated for a total of 6 units.

CLAS 700 Proseminar in Classical Studies: Texts and Contexts (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Classical studies: paleography, epigraphy, numismatics, archaeology, literary criticism and their related research tools (e.g., inscriptions, coins, papyrus manuscripts, material remains).

CLAS 720 Seminar in Classical Languages and Literature (Units: 3)
Prerequisite: Graduate standing in Classics or consent of instructor.
In-depth exploration of one or more authors of or themes within ancient Greek and/or Roman literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

CLAS 890 Editing and Publishing the Classics Journal (Units: 1-3)
Prerequisite: Major in classics or department consent.
Supervised experience in editing and production of journal of student work. Credit not applicable to major/minor fields in classics. May be repeated for a total of 6 units. (CR/NC grading only.)

CLAS 896 Directed Reading in Classics (Units: 3)
Prerequisite: Approved Advancement to Candidacy (ATC) and Culminating Experience (CE) forms must be on file in the graduate studies office.
Supervised study of primary texts and topics in classics, based on departmental reading list and student's special areas of emphasis, in preparation for the comprehensive oral examination. Not open to M.A. candidates selecting the thesis option. (CR/NC grading only)

CLAS 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 898, or 998, (or in some cases, courses numbered 890 - see program's graduate advisor for further information). (CR/NC, RP)

CLAS 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

CLAS 899 Independent Study (Units: 1-3)
Prerequisites: Consent of graduate major adviser and supervising faculty member.
Study is planned, developed, and completed under the direction of a member of the department. Open to graduate students who have demonstrated ability to do independent work. Enrollment by petition. May be repeated for a total of 6 units.
Clinical Laboratory Science (CLS)

CLS 701 Clinical Chemistry and Urinalysis (Units: 4)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Overview of clinical biochemistry and renal function. Proper specimen collection, instrumentation, quality assurance, physical and chemical analysis of samples. Case histories and laboratory practice emphasize correlation of laboratory findings and clinical conditions. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)

CLS 702 Clinical Laboratory Science Internship I (Units: 4)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Clinical training in a clinical laboratory for licensure in California and ASCP. May be repeated for a total of 8 units. (CR/NC grading only)

CLS 705 Clinical Laboratory Science Internship II (Units: 3)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Clinical training in a clinical laboratory for licensure in California and ASCP. May be repeated for a total of 6 units. (CR/NC grading only)

CLS 706 Contemporary Clinical Science Issues (Units: 2)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Includes modules on: 1) Quality control and statistics in the laboratory; 2) Laboratory administration, management, and legislation; 3) Laboratory instrumentation for manual, automated, and computerized techniques; 4) Research methods; 5) Molecular diagnostics theory and clinical practice.

CLS 707 CLS Bridge to Clinical Practice (Units: 3)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Clinical training in a clinical laboratory for licensure in California and ASCP. (CR/NC grading only)

CLS 709 Clinical Laboratory Science Internship III (Units: 3)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Clinical training in a clinical laboratory for licensure in California and ASCP. (CR/NC grading only)

CLS 731 Clinical Hematology and Laboratory Application (Units: 4)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Identification of blood cells, pathophysiology, hemostasis mechanisms, and disease states of hematological and hemostasis conditions. Theory and application of hematology procedures with emphasis on detection of abnormalities. Interpretation of clinical cases. (Plus-minus letter grade only)

CLS 753 Clinical Microbiology for the CLS Intern (Units: 4)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Principles of diagnostic microbiology that apply to bacteria, fungi, parasites and viruses, including phenotypic and genotypic detection, identification and susceptibility testing using slide and culture evaluation. Case histories and laboratory practice emphasizing correlation of laboratory findings and clinical conditions. Introduction of molecular diagnostic theory and practice. Classwork, 3 units; laboratory, 1 unit.

CLS 790 Clinical Serology and Immunohematology (Units: 4)
Prerequisites: Restricted to students in the CLS certificate program and possession of California State trainee license.

Theory and practice of serology and blood banking, including immune system, autoimmune diseases, red blood cell antigens, transfusion reactions, compatibility testing, current serological methodologies such as ELISA and immunofluorescence. Correlation of laboratory findings with pathophysiology. Interpretation of case studies. Classwork, 3 units; laboratory, 1 unit.
Communication Studies (COMM)

COMM 120 Language, Culture, and Power (Units: 3)
Introduction to the study of language use in various cultural and political contexts including peer groups, classrooms, families, and communities. Language varieties, groups’ identities, representations, and personal narratives shaped by history, power, and privilege. GE skills—writing, oral communication, critical thinking, and quantitative reasoning—will be systematically reinforced. (Plus-minus ABC/NC grading only)
Course Attributes:
- E1: Lifelong Learning Develop
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

COMM 150 Fundamentals of Oral Communication (Units: 3)
Introduction to communication in interpersonal relationships, group interactions, and formal speaking. Skill development in listening, speech preparation, and oral presentation.
(Note: For this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later)
Course Attributes:
- A1: Oral Communication

COMM 220 Introduction to the Performance of Literature (Units: 3)
Prerequisites: COMM 150, ENG 214, or equivalents; priority registration for Communication Studies majors and minors, Liberal Studies majors, and English Education majors.
Oral interpretation of literature: excerpts from prose, poetry, and public speeches. Analysis of literature, script development, and performance skills. [Formerly COMM 362]

COMM 230 Introduction to Argumentation and Debate (Units: 3)
Methods of analysis and verbal formulation of the strongest possible case for and against a position or a point of view; the support of that position through evidence and inference; practical application in debate and public speaking. [Formerly COMM 365, 4 units]

COMM 240 Introduction to Nonverbal Communication (Units: 3)
Research on nonverbal communication. Interpersonal space, facial displays, body posturing, paralanguage, and costume. Individual awareness of nonverbal messages and individual range of nonverbal expression. [Formerly COMM 512, 4 units]
Course Attributes:
- D1: Social Sciences

COMM 250 Introduction to Group Discussion and Teamwork (Units: 3)
Principles of group discussion; influence of structure, norms, roles, leadership, and climate on the processes of communication and collaborative decision-making. Evaluation of members and leaders. [Formerly COMM 521, 4 units]
Course Attributes:
- C2: Humanities

COMM 304GW Writing About Communication and Masculinities - GWAR (Units: 4)
Prerequisites: Restricted to upper division Communication Studies major or minor; COMM 150, ENG 214 with a grade of C- or better. Open only to students who have not satisfied the GWAR requirement.
Rhetorical and critical media theories are applied to careful, constructive analysis of popular media in this writing intensive course. (Plus-minus AB/C+/C/NC grading only) [Formerly COMM 504GW]
Course Attributes:
- Graduation Writing Assessment

COMM 312GW Writing about Interpersonal Communication - GWAR (Units: 4)
Prerequisites: COMM 150, ENG 214 with a grade of C- or better, or equivalents, enrollment priority for Communication Studies majors.
Theory, conceptual frameworks, and scholarship related to verbal and nonverbal communication processes in varied relationships. Emphasis on written summary and synthesis of interpersonal communication research. (ABC/NC grading only) [Formerly COMM 502GW]
Course Attributes:
- Graduation Writing Assessment

COMM 321 Communication Theory (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, enrollment priority for upper division Communication Studies majors and minors.
Communication theories and research. Communication models, verbal and nonverbal symbols, systems theory, symbolic interactionism, persuasion/compliance-gaining, and communication in various contexts. This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

COMM 321GW Writing About Communication Theory - GWAR (Units: 4)
Prerequisites: COMM 150, ENG 214 with a grade of C- or better, or equivalents, enrollment priority to upper division Communication Studies major or minor.
Communication theories and research. Communication models, verbal and nonverbal symbols, systems theory, symbolic interactionism, persuasion/compliance-gaining, and communication in various contexts. (ABC/NC grading only; C-/CR not allowed)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
- Graduation Writing Assessment
COMM 322GW Writing About Organizational Communication - GWAR (Units: 4)
Prerequisites: Restricted to upper division Communication Studies majors, COMM 150, ENG 214 or equivalent with a C- or better.

Develop writing competencies (proposing, drafting, editing) for use in professional, industrial, community and social organization; description and analysis of organizational communication processes, practices, and policies. (ABC/NC grading only) [Formerly COMM 522GW]

Course Attributes:
- Graduation Writing Assessment

COMM 334GW Writing About Mediation - GWAR (Units: 4)
Prerequisites: COMM 150, ENG 214 or equivalents with a grade of C or better, upper division Communication Studies majors, enrollment priority only to students who have not met the GWAR.

Skill development in communication for dispute resolution in mediation. Upper level writing competencies developed. (ABC/NC grading only) [Formerly COMM 534GW]

Course Attributes:
- Graduation Writing Assessment

COMM 344GW Writing About Popular Media - GWAR (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents with a grade of C- or better, upper division Communication Studies majors and minors.

Rhetorical and critical media theories are applied to careful, constructive analysis of popular media in this writing intensive course. (ABC/NC grading only) [Formerly COMM 444GW]

Course Attributes:
- Graduation Writing Assessment

COMM 348GW Writing About Environmental Rhetoric - GWAR (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents with a grade of C- or better, upper division Communication Studies majors.

Critical reading and summarizing of communication scholarship and analysis of contemporary rhetoric related to environmentalism and environmental justice. Emphasis on developing writing competencies. (ABC/NC grading only) [Formerly COMM 448GW]

Course Attributes:
- Graduation Writing Assessment
- Environmental Sustainability

COMM 361GW Writing About Social Semiotics - GWAR (Units: 4)
Prerequisites: COMM 150, ENG 214 or equivalent with a grade of C or better, upper division Communication Studies majors. Enrollment priority to students who have not yet met the GWAR.

Social functions of language and symbolism in everyday life. Analyses of how meaning is constituted and communicated through the use of symbols in social and cultural practices. (ABC/NC grading only.) [Formerly 561GW]

Course Attributes:
- Graduation Writing Assessment

COMM 362GW Writing About Discourse in Interaction - GWAR (Units: 4)
Prerequisites: COMM 150 or equivalent, ENG 214 or equivalent with a grade of C or better, enrollment priority to upper division Communication Studies majors.

Theoretical foundations for analyzing discourse in interaction; frequently studied, recurrent structures in discourse in a variety of settings. (ABC/NC grading only) [Formerly COMM 562GW]

Course Attributes:
- Graduation Writing Assessment

COMM 368 Forensics (Units: 2)
Prerequisites: COMM 150, ENG 214, or equivalents.

On-campus and intercollegiate forensics activities including debate, oratory, extemporaneous speaking, and discussion. May be repeated for a total of 4 units.

COMM 502 Interpersonal Communication (Units: 4)
Prerequisite: COMM GWAR or equivalent (may be taken concurrently); enrollment priority for Communication Studies majors and Conflict Resolution Certificate program students.

Processes and theories of gender and communication, including the role of power and language; verbal and non-verbal interaction; the impact of historical, social, and psychological factors on gendered communication in different settings.

COMM 504 Communication and Masculinities (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently); restricted to upper division Communication Studies majors and minors.

Analysis of communication in the production, maintenance, and contestation of various expressions/performances of masculinity, from identity/interpersonal relationships to mediated texts/cultural discourses, in national/international contexts.

COMM 508 Children's Communication (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, enrollment priority for upper division Communication Studies, Child and Adolescent Development, and Liberal Studies majors.

Children's ability to use language appropriately in interpersonal and group situations is examined as a set of "communication acts," informing, persuading, feeling, ritualizing, and imagining.

COMM 515 Family Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently); restricted to upper division Communication Studies majors and minors and upper division students in the Conflict Resolution Certificate program.

Family communication patterns: relational communication, family themes and rules, roles, power, decision-making, conflict, and responses to change and stress.
COMM 522 Organizational Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently); enrollment priority to upper division Communication Studies majors.

Use theory and research to analyze and critique communication processes, practices, and policies within and between organizations; consider multiple groups of stakeholders for public, private, and not-for-profit sector organizations; investigate communication within particular organizations and industries.

COMM 525 Sexual Identity and Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority registration restricted to upper division Communication Studies majors and minors, Criminal Justice majors, and students in the Conflict Resolution Certificate program.

Emergence of sexual identity and orientation in social interaction. Explores how interpersonal and group communication shapes the sexual self through private discourse—labeling, defining, self-disclosing—and public dialogue—community organizing and advocacy.

COMM 527 Health Communication (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, enrollment priority to upper division Communication Studies majors.


Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

COMM 530 Communication in Organizational Training (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, enrollment priority to upper division Communication Studies majors.

Communication techniques necessary for successful training in organizations. Skills in assessing training needs, designing programs, and evaluating results.

COMM 531 Conflict Resolution (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents.

Communication and conflict in two-person, small group, and organization settings. Conflict resolution and leadership skills development.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

COMM 532 Interviewing Methods in Organizational Settings (Units: 4)
Prerequisites: COMM 150 and ENG 214 or equivalents; enrollment priority to upper division COMM majors.

The interview as a complex communication process focusing on the development of patterns of questions and appropriate response strategies. Rhetorical analysis of interviews in professional contexts.

COMM 533 Communication and Empowerment in Organizations (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), enrollment priority to upper division Communication Studies majors.

The process of empowerment as it relates to human communication; various conceptualizations of “empowerment,” existing treatment(s), and communicative strategies for individual, group or team, and organizational empowerment.

COMM 534 Mediation Theory and Practice (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority given to upper division Communication Studies, Liberal Studies, and Conflict Resolution students.

Theories of mediation/alternative for dispute resolution, mediation skills training, exposure to community mediation organizations, practices. In depth case analysis, role plays, community service opportunities.

COMM 537 Leadership Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority given to upper division Communication Studies majors and minors.

Theories of leadership communication as they are manifested in organizational and public settings to attain goals.

COMM 538 Discourse in Interaction (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.

Theoretical foundations for analyzing discourse in interaction; frequently studied, recurrent structures in discourse in a variety of settings. [Formerly COMM 562]

COMM 541 Critical Approaches to Culture and Communication (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents.

Study of communication and culture from a critical perspective in a variety of contexts ranging from local to global. Focus on how non-dominant or marginalized groups’ identities, representations, and personal narratives are shaped by history, power, and privilege.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

COMM 543 Dialogues Across Differences (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors/minors, Criminal Justice majors, and Conflict Resolution Certificate program.

Communication theory and practice as a means to make connections and to improve the quality of dialogues amongst people with different social discourses and cultural experiences.

COMM 544 Communication and Aging (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.

Cultural constructions of aging, impact of aging on communication, communication in contexts involving and impacting older adults.

Course Attributes:
- E1: Lifelong Learning Develop
COMM 550 Classical Rhetoric (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, priority to upper division Communication Studies majors.
Rhetorical theory, concepts, and practices of Pericles, Demosthenes, Isocrates, Plato, Aristotle, Cicero, and Quintilian.

COMM 551 Persuasion (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies and Liberal Studies majors.
Factors involved in influencing audience attitudes through public speeches. Awareness of oral persuasion as used in our society and to clarify ethical standards of responsibility of the persuader. [Formerly COMM 366]

COMM 552 Women and Words (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors and minors, Liberal Studies majors, and English Education majors.
Explores women's communicative cultures, while enhancing students' performance skills through a variety of speech activities, such as performance of literature, public speaking, and small group communication. Combines communication and linguistic theories with practical applications within a feminist framework. [Formerly COMM 352]

COMM 553 Oral Interpretation of the First Person Voice (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently); priority registration restricted to upper division Communication Studies majors/minors, Liberal Studies majors, and English Education majors.
Theory and principles of reading literature aloud which is written in the first person voice to illuminate the special properties when translated from the printed page to the spoken word. [Formerly COMM 363]

COMM 554 Oral Interpretation of Children's Literature (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently); enrollment priority to upper division Communication Studies, Child and Adolescent Development, Liberal Studies, and English Education majors.
Focus on adults reading stories, poetry, and nonfiction to children ages 5 to 12 years old. Skills for translating the printed page into an oral performance. [Formerly COMM 364]

COMM 555 Ensemble Performance Workshop (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.
Focus on presentation of original and adapted texts for performance, including textual and audience analysis, direction, and use of physical spaces. Additional meetings outside class required for rehearsals and performances. May be repeated for a total of 8 units. [Formerly COMM 696]

COMM 556 Performance Art: Aesthetic Communication Criticism (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.
Understand performance art as critical communication and engagement with the social world. Explore history of performance art, develop critical tools for using performance as a method, and create performances/installations using different theoretical/aesthetic texts and methods. [Formerly COMM 496]

COMM 557 Performance and Pedagogy of the Oppressed for Educators (Units: 3)
Prerequisite: CWL 214 or ENG 214 or equivalent.
Examination of theories of Augusto Boal and Paulo Freire and their application for educators and community activists. (This course is offered as LS 403 and COMM 557. Students may not repeat the course under an alternate prefix.)

COMM 559 Theory and Practice in Advanced Public Speaking (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies and Liberal Studies majors.
Principles of effective extemporaneous speaking; practice in preparation and delivery of speeches for different occasions. Class criticism of student speeches. [Formerly COMM 351]

COMM 560 Political Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors and minors.
American political communication in terms of rhetorical structure, substance, strategy, and style. Analysis of contemporary political campaign rhetoric and communication. [Formerly COMM 440]

COMM 561 Social Semiotics (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.
Social functions of language and symbolism in everyday life. Analyses of how meaning is constituted and communicated through the use of symbols in social and cultural practices.

COMM 563 Conversational Analysis (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, priority to upper division Communication Studies majors.
Examination of research findings on conversations, including the study of such topics as: pragmatic rules, power, manipulation, topic management, politeness, emotional discourse, rituals, and storytelling. Methods for collecting, transcribing, and analyzing naturally occurring conversations.

COMM 564 Issues in Free Speech (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors and minors, Criminal Justice Studies, and Conflict Resolution Certificate students.
Issues and cases involving freedom of expression. Historical and current controversies involving national survival, public morality, law and order, academic freedom, privacy. Symbolic and non-verbal free speech issues. [Formerly COMM 461]

COMM 565 Rhetorical Theory (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.
Theoretical principles of rhetoric: attitude formation and change, audience and audience analysis, ethics, appeals, invention, disposition, style, argument structures, strategies, topoi, criticism, humor, and metaphor. [Formerly COMM 341]
COMM 566 Communication and Social Process (Units: 4)
Prerequisite: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors and minors.

Process of institutional and societal decision making. Communication patterns of status quo to maintain itself in the milieu of conflict and change. Conflict resolution, persuasion and propaganda, political leadership and institutional authority. [Formerly COMM 302]

Course Attributes:

• Social Justice

COMM 570 Human Communication and New Technologies (Units: 4)
Prerequisites: COMM 150 and ENG 214 or equivalents; enrollment priority to upper division COMM majors.

How technologies such as teleconferencing, telecommunicating, computer conferencing, videotext, electronic mail, etc., will affect human communication. Issues of trust, synchrony, privacy, and electronic style.

COMM 571 The Rhetoric of Terrorism (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors and minors and upper division Criminal Justice majors.

Rhetorical implications of terrorism sponsored by individuals, dissent groups, criminal enterprises and/or states; examines how symbolic messages are rhetorically communicated and disseminated for and interpreted by audiences. [Formerly COMM 445]

COMM 572 Rhetoric of the Environment (Units: 4)
Prerequisites: Upper division Communication Studies majors, COMM GWAR or equivalent (may be taken concurrently).

Critical reading and synthesis of communication scholarship related to environmentalism and environmental justice. Critical analysis of relevant examples of contemporary rhetoric. [Formerly COMM 448]

COMM 573 The Rhetoric of Criminality and Punishment (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies and Criminal Justice Studies majors.

Contemporary rhetoric of violence and hate, including social discourses of crime and punishment, war and peace, and hatred related to race, sex, gender, sexuality, and class. [Formerly COMM 449]

COMM 574 Rhetoric of the Media (Units: 4)
Prerequisites: Upper division standing, COMM GWAR or equivalent (may be taken concurrently), Communication Studies majors and minors.

Rhetorical dimensions of major communication technologies through history—from oral culture to social media, and its impact on human consciousness and behavior. [Formerly COMM 444]

COMM 575 Emerging and Social Media (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently); enrollment priority to upper division Communication Studies majors and minors.

Investigation of the emergence of new communication practices, as well as their social, political, cultural, and economic impact in personal, communal, cultural, social, institutional, and international life.

COMM 590 Advanced Performance Study (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.

Seminar in performance studies, including the performance of literary and ethnographic texts. Emphasis on presenting and critiquing performances inside and outside the classroom. [Formerly COMM 697]

COMM 625 The Dark Side of Interpersonal Communication (Unit: 1)
Prerequisite: Restricted to upper division Communication Studies majors and minors, COMM GWAR or equivalent (may be taken concurrently).

Critical reading and evaluation of primary communication scholarship related to potentially harmful and/or hurtful communication in interpersonal relationships. Application of knowledge regarding "the dark side" of interpersonal communication to enhance ethical communication in interpersonal contexts.

COMM 661 Quantitative Methods in Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies and Child and Adolescent Development majors.

Basic empirical research skills; design of studies, analysis of data, and preparation of research reports. Practical applications of research.

COMM 662 Critical and Rhetorical Methods in Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.

Methods of rhetorical criticism and examination of the forms of rhetorical acts. Purpose and process of criticism: traditional approach, dramatic approach, fantasy theme approach, narrative approach, cultural approach, and content analysis.

COMM 663 Performative Methods in Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.

Human communication through the performance of materials gathered from everyday life. Techniques for collecting naturally occurring conversations and conducting oral history interviews which are adapted for individual and group performances.

COMM 664 LSI Methods in Communication (Units: 4)
Prerequisites: COMM GWAR or equivalent (may be taken concurrently), priority to upper division Communication Studies majors.

Methods for exploring verbal and nonverbal communication behaviors in language and social interaction. Transcription and analysis of everyday face-to-face talk. Data analysis methods include conversation analysis, ethnmethodology, speech acts, and gesture analysis.

COMM 670 Seminar in Communication Studies (Units: 2)
Prerequisite: COMM GWAR or equivalent (may be taken concurrently), restricted to senior Communication Studies major and minors, or consent of instructor.

Integration and application of theories, contexts and methods in Communication Studies into a final project consisting of portfolio, research presentation or performance, to be determined in the capstone course.
COMM 685 Projects in the Teaching of Communication (Units: 1-4)
Prerequisites: Grade of B or better in the course (or equivalent) in which the student will be aide, and consent of instructor.

Students learn more about a previously studied topic in communication and about pedagogical strategies for sharing that knowledge. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

COMM 695 Internship/Service Learning in Communication Studies (Units: 4)
Prerequisites: COMM 150, ENG 214, or equivalents, priority to upper division Communication Studies majors.

Placement in a profit/non-profit agency for professional development and integration of pedagogy with field experience. Journal/reflection paper and conferences with the coordinator required. May be repeated for a total of 8 units; however, only 4 units may be counted in the major.

COMM 699 Independent Study (Units: 1-4)
Prerequisites: Upper division standing, consent of major adviser and supervising faculty member, and GPA of 3.0.

Supervised study in communication planned and completed under the direction of a member of the department. Repeatable for credit to total 8 units. Enrollment by petition.

COMM 700 Introduction to Graduate Study (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Research and research methodologies. Language and tools for controlled and systematic investigation of speech communication phenomena.

COMM 721 Seminar in Rhetorical and Communication Theory (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Issues in rhetorical and communication theory and practice from the classical period to the present.

COMM 725 Seminar in Sexual Identity and Communication (Units: 4)
Prerequisite: Graduate student in Communication Studies or Sexuality Studies or consent of instructor.

How sexual identities are created, shaped, produced, reproduced, maintained, changed, contested, and challenged through communication practices. Social, cultural, and historical contexts. Interpersonal and mass media contexts.
(This course is offered as COMM 725 and SXS 810. Students may not repeat the course under an alternate prefix.)

COMM 731 Seminar in Communication and Social Criticism (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Contemporary persuasion, propaganda, social control, political leadership, and the rhetorical dimensions of social events.

COMM 740 Seminar in Interpersonal Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Intra- and interpersonal variables necessary to the understanding of human interaction including both verbal and non-verbal phenomena.

COMM 742 Seminar in Group Communication Theory and Practice (Units: 4)
Prerequisite: Graduate standing or consent of instructor. Analysis of group communication theories and research, identification and evaluation of group networks, leadership styles, conflict management, and observation methodologies.

COMM 745 Seminar in Gender and Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Theory and research regarding the role of gender in communication. Examination of such factors as manifestations of power, politeness, intimacy, and play in the communication styles of females and males. (Plus-minus letter grade only)

COMM 750 Seminar in Communication and Culture (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Theories and methodologies appropriate to the study of communicative styles within, between, and among cultural groups and across gender lines and their effect on intergroup contact.

COMM 751 Intercultural Communication Training (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Assessing organizational needs to improve relationships among cultural groups; designing, delivering, and evaluating training programs to provide skills to improve intercultural relations.

COMM 755 Conflict and Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Analysis of theories and research in conflict and communication, application of interdisciplinary principles to the study of conflict and communication, practical applications toward working with conflict, communication and scholarship.

COMM 760 Seminar in Organizational Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Theories, research methods, and practices or organizational communication and development from the perspective of the process consultant. A case study report based on personal experience in an organization setting is required.

COMM 761 Seminar: Corporate Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Explores the public level of organizational communication. Focus on symbolic implications and speech perspective of corporate communication methods including image molding, identity shaping, recognition building, reputation enhancement, and advocacy strategies.

COMM 773 Seminar in Language and Social Interaction (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Examination of historical and theoretical basis for language and social interaction research. Focus on select interactional settings or topics in communication studies from a language and social interaction perspective.

COMM 780 Studies in Contemporary Theory (Units: 4)
Prerequisite: Graduate standing, COMM 700 (may be taken concurrently), or consent of instructor.

Focus is on the in depth study of one or more contemporary theories relevant to the communication studies discipline. Topic to be specified in Class Schedule. May be repeated when topics vary.
COMM 797 Performance Theory and Practice in Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

COMM 850 Teaching Communication (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Assessing student learning needs, designing instructional units and objectives, evaluating performances, and reviewing theories of interpersonal, group and public communication.

COMM 851 Internship in Teaching Communication (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Concepts of effective oral communication, techniques for evaluating/diagnosing proficiency, materials/teaching methods for basic courses in the classroom setting under the direction of an experienced instructor. (CR/NC grading only)

COMM 852 Supervision of Teaching Communication (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Supplements teaching experience with appropriate supervision and training in curriculum, teaching techniques, grading procedures, etc. Repeatable once for credit. (CR/NC grading only)

COMM 855 Coaching Forensics (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Coaching/teaching undergraduate forensics for speech and debate competition. Value debate theory, with research to assess this theory in forensic practice. May include field research off campus for 2 or 3 weekends.

COMM 870 Multiple Methods in Communication Research (Units: 4)
Prerequisite: Graduate standing in Communication Studies; COMM 700 or equivalent.
Exploration of different ways of knowing about communication, identify paradigm assumptions, critique communication scholarship from multiple paradigms, and propose individual research project in paradigm of choice.

COMM 871 Communication Research Strategies (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Basic empirical research skills in communication; design of studies, computer analysis of data, and preparation of research reports.

COMM 872 Field Research Strategies (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Ethnographic approach to communication through the use of a variety of qualitative methods including participant/observation, interviewing, conversation analysis, and unobtrusive measures.

COMM 873 Research Strategies in Language and Social Interaction (Units: 4)
Prerequisite: Graduate standing or consent of instructor.
Methods for collecting recordings of interaction; foundations for analyzing such recordings for graduate level research projects.

COMM 885 Graduate Projects in the Teaching of Communication (Units: 4)
Prerequisites: Grade of B or better in the course or its equivalent in which the student will be an aide; consent of instructor.
An application of previously acquired knowledge through assisting instruction and learning pedagogical strategies. May be repeated for a total of 8 units.

COMM 890 Research Practicum in Communication Studies (Units: 2)
Prerequisite: Graduate standing in Communication Studies; COMM 700 or consent of instructor.
Completion of a communication research project from selection of dissemination venue and paper write up to submission and presentation of findings. May be repeated for a total of 4 units.

COMM 894 Creative Work Project (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies; 3.5 GPA, and recommendation of major adviser. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

COMM 896 Directed Readings in Communication Studies (Units: 3)
Prerequisites: Advancement To Candidacy (ATC) and Proposal for Culminating Experience Requirement forms approved by adviser/department chair prior to registration. Texts and topics in speech communication, based on departmental reading list and student's areas of emphasis, in preparation for Comprehensive Written Examination. Not open to M.A. candidates selecting thesis option or creative project option. (CR/NC grading only)

COMM 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Enrollment in 896EXM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered COMM 894 and COMM 898 (or in some cases, courses numbered COMM 890 - see program's graduate advisor for further information). (CR/NC, RP)

COMM 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies; 3.5 GPA, and recommendation of major adviser.
Intensive, systematic study of significant topic in communication studies. (CR/NC grading only)

COMM 899 Independent Study for Investigation in Communication Studies (Units: 1-4)
Prerequisites: Consent of graduate major adviser and supervising faculty member; 3.25 GPA. Open only to graduate students of demonstrated ability to do independent work. Enrollment by petition.
Study is planned, developed, and completed under the direction of a member of the faculty.
Communicative Disorders (C D)

C D 300 Human Communicative Disorders (Units: 3)
Prerequisite: Upper division standing.

Communicative development and disorders; processes and models; language universals; basis of language; speech, language, and hearing impairments; family and cultural influences; bilingualism and dialectal variations; evaluation of communicative effectiveness. Communicative Disorders majors must earn a C- or better to advance in the major.

Course Attributes:
• UD-D: Social Sciences
• Social Justice

C D 651 Anatomy and Physiology of the Speech Mechanism (Units: 3)
Prerequisites: Restricted to upper division Communicative Disorders major; a course in area B1: Physical Science (Physics or Chemistry is strongly recommended), a course in Statistics (including MATH 124 or PSY 171 or ISED 160), a course in biological science in one of the following areas: human or animal biology, human anatomy and physiology, neuroanatomy and neurophysiology, human genetics, or veterinary science, and a course in social/behavioral sciences in one of the following areas: psychology, sociology, anthropology, or public health. Concurrent enrollment in C D 652 and C D 655.

Normal structures and functioning of respiration, phonation, resonation, and articulation. Communicative Disorders majors must earn a C- or better in this course in order to advance in the major. (Plus-minus letter grade only)

C D 652 Audiology (Units: 3)
Prerequisites: Restricted to Communicative Disorders major; a course in area B1: Physical Science (Physics or Chemistry is strongly recommended), a course in Statistics (at SF State, courses include MATH 124 or PSY 171 or ISED 160), a course in biological science in one of the following areas: human or animal biology, human anatomy and physiology, neuroanatomy and neurophysiology, human genetics, or veterinary science, a course in social/behavioral sciences in one of the following areas: psychology, sociology, anthropology, or public health. Concurrent enrollment in C D 651 and C D 655.

Structure and function of the ear; sound related to hearing mechanism; causes, implications, and techniques of determination of hearing impairment. Communicative Disorders majors must earn a C- or better in this course in order to advance in the major. (Plus-minus letter grade only)

C D 654 Audiometry (Units: 3)
Prerequisites: Restricted to Communicative Disorders major; C D 300, C D 651, C D 652, C D 655, with grades of C- or better, or by advisement; concurrent enrollment in C D 658, C D 661, C D 680.

Pure tone and bone conduction hearing testing. Masking, immittance testing, electrophysiological testing, pediatric audiometry, speech audiometry and public school hearing/conversation programs. (Plus-minus letter grade only)

C D 655 Dynamics of Communication Development (Units: 3)
Prerequisite: Upper division standing.

Exploration of the acquisition patterns of normal speech, language, and pragmatic behaviors. Theories of language development, phonology, morphology, syntax, and semantics. Language analysis with typically development children. (ABC/NC grading only)

Course Attributes:
• UD-D: Social Sciences

C D 656GW Diagnosis of Communicative Disorders - GWAR (Units: 3)
Prerequisites: Restricted to upper division Communicative Disorders major; ENG 214 with a grade of C- or better, C D 654, C D 658, C D 661, C D 680, or by advisement; concurrent enrollment in C D 657, C D 664.

Diagnosis of communicative disorders. Observation, language sample analysis, and distinctive feature analysis. (ABC/NC grading only)

Course Attributes:
• Graduation Writing Assessment

C D 657 Aural Rehabilitation (Units: 3)
Prerequisites: Restricted to upper division Communicative Disorders major; C D 654, C D 658, C D 661, C D 680, with grades of C- or better; or by advisement; concurrent enrollment in C D 656GW, C D 664.

Psychological, educational, and sociological implications of hearing loss. Aural rehabilitation: speech reading, auditory training, amplification, and speech conservation and/or improvement. (Plus-minus letter grade only)

Formerly C D 705

C D 658 Communication Development and Disorders (Units: 3)
Prerequisites: Restricted to upper division Communicative Disorders major; C D 300, C D 651, C D 652, C D 655; concurrent enrollment in C D 654, C D 661, C D 680.

Language acquisition, disorders and their causes in school age children. Application of diagnostic and intervention techniques. (Plus-minus letter grade only)

C D 659 Articulatory and Phonological Disorders (Units: 3)
Prerequisites: Restricted to upper division Communicative Disorders major; C D 656GW, C D 657, C D 664, with grades of C- or higher; or by advisement; concurrent enrollment in C D 663, C D 668.

Disordered articulation; accent/dialectal differences; normal phonological processes; phonological disorders and distinctive features. Practicum for diagnosis and therapy for articulation, phonological, and accent problems. (Plus-minus letter grade only)

C D 660 Communicative Disorders (Units: 3)
Prerequisite: Restricted to upper division Communicative Disorders major.

Voice disorders, adult neurogenic disorders, stuttering, cerebral palsy, and craniofacial anomalies. Etiology, pathology, diagnosis, and intervention techniques. (Plus-minus letter grade only)

C D 661 Neurolinguistics (Units: 3)
Prerequisites: Restricted to upper division Communicative Disorders major; C D 300, C D 651, C D 652, C D 655, with grades of C- or better; concurrent enrollment in C D 652, C D 658, C D 680.

Cortical and subcortical components of language processing; current research on the central nervous system and its application to speech, language, and hearing. (Plus-minus letter grade only)
C D 663 Introduction to Augmentative/Alternative Communication (Units: 3)
Prerequisites: Restricted to upper division Communication Disorders major; C D 656GW, C D 657, C D 664; or by advisement; concurrent enrollment in C D 659, C D 668.

Introduction and applied experiences with augmentative and alternative communication, including low- and hi-tech systems. Assessment, team collaboration, funding and use of AAC such as designing systems that meet functional communication needs. (Plus-minus letter grade only) [CSL may be available]

C D 664 Clinical Phonetics (Units: 3)
Prerequisites: Restricted to upper division Communication Disorders major: C D 654, C D 658, C D 661, C D 680; concurrent enrollment in C D 657, C D 656GW.

Speech sounds of American English and the development of phonology. IPA transcription experience applied with regard to human diversity. Not open to students who have taken COMM 410. (Plus-minus letter grade only)

C D 668 Typical and Atypical Social Communication Development (Units: 3)
Prerequisites: Restricted to upper division Communication Disorders major; completion of C D 656GW and C D 664, C D 753; or by advisement; concurrent enrollment in C D 659 and C D 663 required.

Exploration of typical and atypical development of language use in social contexts, including expressing communicative intent, engaging in conversation and extended discourse, and cultural participation. Pragmatic and discourse analysis of talk in everyday interactions involving children. Diagnostic and intervention strategies. (Plus-minus letter grade only)

C D 680 Practicum in Communication Therapy (Unit: 1)
Prerequisites: Restricted to Communication Disorders major; concurrent enrollment in CD 654 for undergraduate students.

Supervised clinical experiences in communication rehabilitation for communicative disorders. May be repeated for a total of 10 units. Type of experience and number of units determined by advisement. (Plus-minus letter grade, RP)

C D 699 Independent Study in CD (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Study of a particular problem under the direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only.

C D 701 Language Differences and Disorders in Children (Units: 3)
Prerequisite: Admission to Communicative Disorders program or consent of instructor.

Language disorders and differences in children. Verbal, written, signed, and other symbolic disorders; oral communication. Etiology, diagnosis, and assessment of differences and disorders; intervention strategies. (Plus-minus letter grade only) [CSL may be available]

C D 706 Counseling in Communicative Disorders (Units: 3)
Prerequisites: C D 701, C D 708, C D 709, C D 768.

Counseling of communicatively disordered individuals and their families. Theories and methods as they apply to the unique disorder. Experimental opportunities for analyzing individual counseling processes. (Plus-minus letter grade only)

C D 707 Advanced Seminar in Language Disorders in Children (Units: 3)
Prerequisites: Admission to Communication Disorders program; C D 701 or consent of instructor.

Assessment, intervention, and organizational procedures for use with classes that include children of various ages with language disorders. (Plus-minus letter grade only)

C D 708 Neurogenic Disorders of Language (Units: 3)
Prerequisite: Admission to Communication Disorders program or consent of instructor.

Theories and methods of assessment and rehabilitation of adults with aphasia; focus on the nature, diagnosis, and treatment of aphasia, bilingual aphasia, and primary progressive aphasia. (Plus-minus letter grade only)

C D 709 Seminar in Motor Speech Disorder (Units: 3)
Prerequisites: Admission to Communication Disorders program; C D 651, C D 661, C D 753.

Differential diagnosis and management of motor speech disorders in children and adults, including the dysarthrias and apraxia of speech. (Plus-minus letter grade only)

C D 710 Seminar in Dysphagia (Units: 3)
Prerequisites: Admission to Communicative Disorders graduate program; C D 651, C D 661.

Nature, etiology, and physiology of normal and abnormal patterns of swallowing across the life span, with emphasis on adult population. Clinical swallowing assessment, modified barium swallow study and therapeutic intervention for dysphagia. Treatment and clinical decision-making emphasized. (Plus-minus letter grade only)

C D 711 Seminar in Therapy for Functional Communication Disorders (Unit: 1)
Prerequisites: Admission to Communication Disorders graduate program; concurrent enrollment in C D 880.

Communication therapy, functional speech and language disorders: articulation, delayed speech, and stuttering. Repeated with variable clinic experiences. Units co-vary with frequency of client-staff conference and time delivering more complex therapeutic treatment. May be repeated for a total of 4 units. (Plus-minus letter grade only)

C D 712 Medical Internship Seminar: Communicative Disabilities (Unit: 1)
Prerequisites: Admission to Communication Disorders program; concurrent enrollment in C D 882, C D 884.

Seminar and peer discussion during hospital or medical intern placement. Review of clinical practices related to speech-language pathology in the evaluation, intervention, and interaction and personal qualities in the treatment of clients/patients. (Plus-minus letter grade only)

C D 713 Seminar in Therapy for Organic Communicative Disorders (Unit: 1)
Prerequisites: Admission to graduate program; C D 663 or equivalent; concurrent enrollment in C D 880.

Communication therapy with speech and language disorders resulting from central nervous system or organic dysfunction. Repeated with variable clinic experiences. Units co-vary with frequency of client-staff conferencing and more complex therapeutic treatment. May be repeated for 3-9 units. (Plus-minus letter grade only)
C D 715 Advanced School Internship (Units: 6)
Prerequisites: Graduate standing in Communicative Disorders; concurrent enrollment in C D 725.

Participate in all professional roles of speech-language pathologist in community and school settings. Open only to graduate students in Communicative Disorders who have completed all prerequisite coursework, determined by advisor. (CR/NC grading only)

C D 725 School Intern Seminar: Communication Disabilities (Unit: 1)
Prerequisite: Student intern application approved by adviser and on file at least one semester prior to student intern placement.


C D 750 English Language Learning and Exceptionality (Units: 3)
Prerequisite: Graduate standing.

Examination and analysis of the processes of bilingual language acquisition; theories and techniques of assessment and intervention, situated within the contexts of home, classroom, family and community; home- and classroom-based strategies for the speech-language pathologist and classroom teacher. (Plus-minus letter grade only)

C D 753 Fluency and Voice Disorders (Units: 3)
Prerequisites: Admission to the Communicative Disorders graduate program; C D 768.

Causes of stuttering, current theories and therapies relative to stuttering in children and adults. Habilitation and rehabilitation of children and adults with organic and non-organic voice disorders. (Plus-minus letter grade only) [Formerly C D 653]

C D 756 Right Hemisphere Syndrome, TBI, Dementia in Communicative Disabilities (Units: 3)
Prerequisite: C D 708 or consent of adviser.

Discussion of right hemisphere, brain dysfunction, acquired and traumatic brain injuries, and dementia; an understanding of assessment tools, interpretation of results, report writing, and treatment; and different service models. (Plus-minus letter grade only)

C D 768 Advanced Clinical Skills (Units: 3)
Prerequisites: Admission to Communicative Disorders program; C D 668; or consent of instructor.

Analysis of fundamental, transitional, and complex skills that have been shown to positively affect treatment outcomes in the practice of speech-language therapy. (Plus-minus letter grade only)

C D 880 Advanced Communication Therapy (Units: 2)
Prerequisite: C D 668 or equivalent.

Supervised clinical methods and practice in communication rehabilitation. May be repeated for a total of 10 units.

C D 881 Internship in Communicative Disorders I (Units: 3)
Prerequisite: Consent of major adviser.

Pre-internship in practicum settings: hospitals, private and public service agencies providing audiology and speech pathology therapies.

C D 882 Advanced Medical Internship (Units: 6)
Prerequisite: Graduate standing in Communicative Disorders; concurrent enrollment in C D 712.

Participate in all professional roles of speech-language pathologist in community and medical settings. Open only to graduate students who have completed all prerequisite coursework, determined by advisor. (Plus-minus letter grade only)

C D 884 Advanced Diagnosis in Communicative Disorders (Units: 3)
Prerequisites: 4 units of C D 889, C D 756, and consent of clinic supervisor.

Supervised clinical diagnosis of communicative disorders.

C D 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered C D 898. (CR/NC, RP)

C D 898 Master’s Thesis in Communicative Disorders (Units: 3)
Prerequisites: Consent of instructor and graduate major adviser; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

C D 899 Independent Study (Units: 1-3)
An intensive study of a particular problem in communicative disorders under direction of a member of the department. Enrollment by petition. Open to regularly enrolled students only.
Comparative World Literature (CWL)

CWL 214 Second Year Written Composition: Comparative and World Literature (Units: 3)
Prerequisite: ENG 114 or equivalent with a grade of CR or C- or better.
Flexible reading and writing skills for academic inquiry and engaging with social issues through comparative and interdisciplinary approaches; world literature readings integrated with a variety of sources; varied composing and revising skills; critical analysis and self-reflection, with special attention to rhetorical variation; fine-tuning research. (Plus/minus ABC/NC, CR/NC allowed)
Course Attributes:
• A4: Written English Comm II

CWL 220 Reading Beyond Boundaries: An Introduction to Comparing Literatures (Units: 3)
Reading literature from diverse times and places to discover the relevance of literary representation for contemporary life. Covers basics of literary analysis, examination of genres, and comparative methodology to uncover the significances and effects of literary representation.
[Formerly CWL 210]
Course Attributes:
• C3: Humanities: Literature
• Global Perspectives

CWL 230 World Literature (Units: 3)
Literary classics of the world, their cultural backgrounds, and their place in the history of ideas, from a variety of genres and national literatures.
Course Attributes:
• C3: Humanities: Literature
• Global Perspectives

CWL 250 Fables and Tales (Units: 3)
Development from folklore and parable of the fable and the tale. Narrative forms such as the animal fable, fairy tale, and remarkable voyage; central themes and techniques in the tradition of didactic and fantastic fiction.
Course Attributes:
• C3: Humanities: Literature
• Global Perspectives

CWL 260 Myths of the World (Units: 3)
Different mythologies, their interpretation, and significance to world literature.
Course Attributes:
• C3: Humanities: Literature
• Global Perspectives

CWL 270 Fantasy and Fiction: Exploring Parallel Worlds (Units: 3)
Prerequisite: ENG 114 or equivalent.
Exploration of dreams, parallel worlds, and alternate realities in fiction and media from a variety of traditions and cultures; development of critical reading skills to examine the intersection of fantasy and reality in literary representation.
Course Attributes:
• C3: Humanities: Literature

CWL 400GW Approaches to Comparative and World Literature - GWAR (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of C- or better.
Gateway to undergraduate study in comparative literature. Active comparison of texts from multiple literary traditions and genres using a variety of methods. Introduction to the discipline and critical theory. Writing intensive. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

CWL 420 Studies in Comparative Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Comparison of literary texts from multiple linguistic traditions through thematic, theoretical, chronological, and/or formal connections. Topic to be specified in Class Schedule. May be repeated when topics vary.

CWL 421 Celtic Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Literary traditions of culturally diverse Celtic world from earliest legends of gods, heroes, warriors, and saints to modern literature; texts may include traditions such as Irish, Welsh, Scottish, Breton, and Manx.
Course Attributes:
• UD-C: Arts and/or Humanities

CWL 422 Imagining the Constructed Body: From Statues to Cyborgs (Units: 3)
Prerequisite: ENG 214 or equivalent.
How diverse cultures, through literature, have imagined "constructing bodies"—conceptualizing, creating, or enhancing the body: sex, gender, sexuality, self-referential literary representations plus relevant literary theories. [Formerly CWL 420 - Variable Topic]
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

CWL 423 Going Medieval: Comparative Medieval European Literature (Units: 3)
Prerequisite: CWL 214 or ENG 214 or equivalent.
A survey of the major genres of Medieval European vernacular writing in translation, including epic, romance, tale collections, and lyric poetry. (This course is offered as CWL 423 and HUM 423. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

CWL 424 Multicultural Middle Ages (Units: 3)
Prerequisite: CWL 214 or ENG 214 or equivalent.
A survey of medieval European representations of the Islamic world, as reflected in the major genres of epic, romance, tale collections, travel writing, and lyric poetry. (This course is offered as CWL 424 and HUM 424. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
CWL 430 Heroic Tales of the Mediterranean (Units: 3)
Prerequisite: ENG 214 or equivalent.

Heroic narratives, in poetry and prose, provide the means for examining aspects of the ancient, medieval, and modern cultures of the eastern Mediterranean and Near East.

Course Attributes:
- Global Perspectives

CWL 432 From Ghost Stories to Short Stories: Japanese Fiction in Comparative Contexts (Units: 3)
Prerequisite: ENG 214 or equivalent.

Examination of formal transformations in Japanese prose fiction through comparison with other literary traditions; focus on questions of tradition, influence, genre, and translations. (This course is offered as CWL 432 and HUM 532. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

CWL 437 Holocaust and Literature (Units: 3)
Prerequisite: ENG 214.

Fiction and non-fiction Holocaust literature by Saul Bellow, T. Borowski, Etty Hillesum, I.B. Singer, and Elie Wiesel. (This course is offered as JS 437, ENG 533, and CWL 437. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

CWL 440 "Typical American": Narratives of Multiculturalism in the Americas from 1492 to the Present (Units: 3)
Prerequisites: ENG 214 or CWL 214 or equivalent; CWL 400GW or other GWAR course is recommended.

Understanding the Americas through historical and hemispheric comparison of multicultural literary texts; interaction of race, ethnicity, class, and gender with other constructions of group identity in narratives; interplay between community and individual identity from 1492 to the present.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

CWL 450 Literary Crossings (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of the theme and forms of literary crossings in comparative literature, among them transnationalism, migration, and second-language writing; literature crossing lines of race, gender, sexuality, class, or the boundary between human and non-human; generically hybrid literatures.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

CWL 451 Jewish Literature of the Americas (Units: 3)
Prerequisite: ENG 214 or equivalent.

Explores literature of the Americas through the lens of Jewish identity and tradition. Texts in translation from Latin America, Canada, and the US reveal how Jewish writers have rethought modernity’s intersection with Jewish traditions. (This course is offered as JS 451, CWL 451, and ENG 451. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives

CWL 452 Forster, Durrell, and Cavafy (Units: 3)
Prerequisite: ENG 214 or equivalent.

Examination of English novelists and travel writers E. M. Forster and Lawrence Durrell and of their connection to Alexandrian poet C. P. Cavafy. Discussion includes their collective interest in Alexandria as an alternative literary and ideological topos. (This course is offered as MGS 452, CWL 452, and ENG 452. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

CWL 465 Modern Greek Poetry in Comparative Perspective (Units: 3)
Prerequisite: ENG 214 or equivalent.

Survey of Greece’s prominent modern poets in comparison with major Anglo-American and European poets. Poets to be studied include Cavafy, Seferis, Elytis, Mastoraki, Yeats, Eliot, Pound, and Rich. (This course is offered as MGS 465, CWL 465, and C W 465. Students may not repeat the course under an alternate prefix.)

CWL 480 European Jewish Writers (Units: 3)
Prerequisite: ENG 214 or CWL 214 or equivalent.

Survey of the works of modern Jewish writers throughout Europe between the nineteenth- and twentieth-centuries; influence of the Jewish Enlightenment on modern Jewish literature. (This course is offered as JS 480 and CWL 480. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

CWL 515 The Uncanny in World Literature (Units: 3)
Prerequisites: ENG 214 or equivalent, CWL 400GW recommended.

Examination of the uncanny— the aesthetic quality of literary texts that provokes eerie, unsettling reactions— in works from a variety of places and times. Focus on the living dead, doppelgangers, déjà vu, repetition, and automatism.
CWL 520 Modern Prose of the Americas (Units: 3)
Prerequisites: ENG 214 or CWL 214 or equivalent, CWL 400GW or other
GWAR course recommended.
Exploration of the creation and representation of modern "American"
identities through comparison of prose fiction from Latin America (in
translation) and the United States; focus on two periods: 1920s-1940s
and 1960s-1980s.
Course Attributes:
- Global Perspectives

CWL 525 The Partial Magic of Metafiction (Units: 3)
Prerequisite: ENG 214 or consent of instructor.
Exploration of literary self-reflection in contemporary world metafiction.
Why do some novels dispel their illusions of realism? What happens
when characters realize they are mere fictions? How do we make our way
through these literary labyrinths?

CWL 540 Faulkner, García Márquez, and Morrison (Units: 3)
Prerequisites: ENG 214 or CWL 214 or equivalent, CWL 400GW or other
GWAR course is recommended.

Comparative reading of three major 20th century novelists: William
Faulkner, Gabriel García Márquez, and Toni Morrison. These authors
provide a vantage point for exploring representation in the Americas,
the modern novel, and literary value.

CWL 690 Editing and Publishing the Comparative Literature Journal
(Units: 1-3)
Prerequisite: Major or minor in comparative literature or department
consent.
Supervised experience in editing and production of a journal of student
work. Credit not applicable to major or minor fields in comparative
literature. CWL 690 and CWL 890 may be repeated for a combined total of
6 units. (CR/NC grading only)

CWL 697 Honor's Thesis (Units: 3)
Prerequisites: Comparative Literature major and consent of department.

Tutorial leading to an honor's project or thesis on special research topic
to be determined jointly by student and faculty member. (CR/NC grading
only)

CWL 699 Independent Study (Units: 1-3)
Prerequisite: Consent of the department chair and instructor.

Projects requiring critical study and analysis of advanced material
adapted to individual needs and interests. May be repeated for a total of
6 units.

CWL 746 Seminar: Opera and Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of
instructor.

Literary aspects of the creation, composition, production, and
interpretation of opera. Literary texts that inspire operas will be
interpreted critically along with the operas they inspired. Opera libretti
will be examined as literature interactively with opera's musical, dramatic,
and performative elements.
(This course is offered as ENG 746 and CWL 746. Students may not
repeat the course under an alternate prefix.)

CWL 800 Introduction to Graduate Study in Comparative Literature
(Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Methodology and definitions of comparative literature; critical theory of
literature as it relates to comparative studies.

CWL 815 Seminar: Topics in Critical Theory (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Research seminar examines a major subject area in critical and literary
theory. Topic to be specified in Class Schedule. May be repeated for a
total of 9 units when topics vary.

CWL 820 Topics in Comparative Literature (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Research seminar compares literary texts from multiple traditions
through thematic, theoretical, chronological, and/or formal connections.
Topic to be specified in Class Schedule. May be repeated for a total of 9
units when topics vary.

CWL 825 Advanced Study in Comparative Literature (Units: 3)
Prerequisite: CWL 800 or consent of instructor.

Synthesizing prior knowledge about theory and practice of comparative
literature; developing scholarly and professional skills for culminating
experience and beyond; exploring post-M.A. paths.

CWL 890 Editing and Publishing the Comparative Literature Journal
(Units: 1-3)
Prerequisite: Comparative Literature major or minor or department
consent.
Supervised experience in editing and production of journal of student
work. Credit not applicable to major/minor fields in comparative
literature. CWL 690 and CWL 890 may be repeated for a combined total of
6 units. (CR/NC grading only)

CWL 896 Directed Reading in Comparative Literature (Units: 3)
Prerequisites: Approved ATC and culminating experience proposal.

Supervised study based on departmental reading list and student's
specialty area in preparation for the Comprehensive Oral Examination.
Not open to M.A. candidates selecting the thesis option. (CR/NC grading
only)

CWL 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of
Advancement to Candidacy (ATC) and Culminating Experience (CE) forms
by Graduate Studies. ATC and Proposal for Culminating Experience
Requirement forms must be approved by the Graduate Division before
registration.

Enrollment in 896EXAM required for students whose culminating
experience consists of an examination only. Not for students enrolled in
a culminating experience course numbered CWL 898 (or in some cases,
courses numbered CWL 890 - see program's graduate advisor for further
information). (CR/NC, RP)

CWL 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor; recommendation of major adviser;
and approval of Advancement to Candidacy (ATC) for the Master of
Arts and Culminating Experience (CE) forms by Graduate Studies. ATC
and Proposal for Culminating Experience Requirement forms must be
approved by the Graduate Division before registration. (CR/NC grading
only)
CWL 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate major adviser and supervising faculty member.

Study is planned, developed, and completed under the direction of a member of the department. Open only to graduate students of demonstrated ability to do independent work. Enrollment by petition (form available in the department office). May be repeated for a total of 6 units.
Computer Science (CSC)

CSC 101 Computers for Everyone (Units: 3)
Comprehensive and basic overview of computers and their use for everyday tasks such as information retrieval, Internet, writing, presentations, communication, Web publishing, e-commerce, entertainment, computation. No prior knowledge required.

CSC 203 JAVA Programming (Units: 3)
Prerequisite: CSC 210 or consent of instructor.
JAVA language and object oriented programming. Use of inheritance, polymorphism, exception handling and libraries; JAVA applets and GUI development using Swing.

CSC 206 Python Programming (Units: 3)
Prerequisite: CSC 210 or consent of instructor.
Python language programming, with basic principles of interpretative languages. The use of basic Python constructs and standard libraries (e.g. networking, regular expressions, GUI). Simple apps such as WWW, games.

CSC 208 C++ for Java Programmers (Unit: 1)
Prerequisites: Java programming courses or consent of instructor.
Hands-on exercises in C++ programming. Emphasize features common to C++ and Java and features unique to C++. (CR/NC grading only)

CSC 210 Introduction to Computer Programming (Units: 3)

CSC 211 Introduction to Software Lab (Unit: 1)
Hands-on exercises in programming, and use of basic SW development tools. Covers procedural, object oriented, C++, and JAVA programming. Strongly recommended for CSC 210 students, and others needing hands-on experience; concurrent enrollment in CSC 210 recommended. Students are encouraged to bring their own laptops. May be repeated for a total of 3 units. (CR/NC grading only)

CSC 220 Data Structures (Units: 3)
Prerequisites: CSC 210, MATH 226, with grades of C or better.
Linear and non-linear data structures in Java, including lists, stacks, queues, trees, tables, and graphs. Recursion, iteration over collections, sorting, searching, Big O notation and hash table.

CSC 230 Discrete Mathematical Structures for Computer Science (Units: 3)
Prerequisites: CSC 210, MATH 227 (may be taken concurrently), with grades of C or better.
Review of set algebra, relations and functions; permutations; propositional logic; proof techniques; introduction to graph theory; infinite sets; applications to computer science.

CSC 256 Machine Structures (Units: 3)
Prerequisite: CSC 230 with a grade of C or better.
Digital logic circuits; data representation; assembly language programming; subroutine linkage; machine language encoding; interrupt/exception handling; memory system concepts; CPU organization and performance.

CSC 300GW Ethics, Communication and Tools for Software Development - GWAR (Units: 3)
Prerequisites: Restricted to upper division Computer Science majors and minors; CSC 210, ENG 214 or equivalent with a grade of C or better.
Privacy, security, legal and ethical issues in Software development. Communication relevant to SW development (reports, contracts, requirements, documentation, collaboration, e-mail, presentations). Study and use of basic tools for SW development and collaboration. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

CSC 306 An Interdisciplinary Approach to Computer Programming (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Basics of programming for interdisciplinary problem-solving. Topics include basic building blocks of programming (variable, control statement, iterative statement, array, function, and abstraction) and problem-solving approaches. Use App Inventor and Java.

CSC 307 An Interdisciplinary Approach to Web Programming (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Basics of WWW engineering relevant to studies in interdisciplinary problem-solving. Topics include basics of developing web and database applications, HTML, PHP, Python, SQL, MySQL database.

CSC 309 Computer Programming for Scientists and Engineers (Units: 3)
Prerequisite: MATH 226 or consent of instructor.
Procedural programming for scientific applications. Good programming practices and basic numerical and non-numerical algorithms for scientists and engineers.

CSC 317 Introduction to Web Software Development (Units: 3)
Prerequisite: CSC 220 or consent of instructor.
Introduction to UNIX and creating web pages, reading and processing user input submitted through web pages; client side and server side programming; connecting a web page to a database; building e-commerce site or Internet Application.

CSC 338 Information Technology in a Global Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Study of increasingly interconnected technology and sharing of information in the 21st century. The important role technology plays in the U.S. and the world. Exploration of the information age in several social contexts. (This course is offered as ISYS 338 and CSC 338. Students may not repeat the course under an alternate prefix.)

CSC 340 Programming Methodology (Units: 3)
Prerequisites: CSC 220, CSC 230, MATH 227, with grades of C or better; concurrent enrollment in CSC 412 recommended.
Advanced data structures and algorithms for manipulation in C++; emphasis on design and implementation; practical applications; algorithms for sorting, searching, and graphs.
CSC 645 Computer Networks (Units: 3)
Prerequisite: CSC 415 with a grade of C or better.

Computer network design, evaluation, and testing. Computer network standards and implementation. Hardware/software design and compatibility issues. Extra fee required. (CSC 745/CSC 645 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 648 Software Engineering (Units: 3)
Prerequisite: CSC 413 with a grade of C or better or consent of instructor.

Practical methods and tools for SW engineering, including organizational teamwork. (CSC 848/CSC 648 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 650 Secure Networked Systems (Units: 3)
Prerequisites: CSC 415 with a grade of C or better or consent of instructor.

Analysis, planning, construction, and operation of secure networked computing systems: security for environments within Internet, encryption, assets, risk, authentication, trust, controls, defense, routers, firewalls, law, ethics. Extra fee required.

CSC 651 System Administration (Units: 3)
Prerequisites: CSC 413, CSC 415, with grades of C or better.

User administration. Operating system installation, tuning, and control. Network administration. Security management. Performance tuning and management. Extra fee required. (ABC/NC grading only)

CSC 656 Computer Organization (Units: 3)
Prerequisite: CSC 415 (may be taken concurrently) or consent of instructor.


CSC 658 Programming Cafe (Units: 3)
Prerequisites: CSC 413 with a grade C or better or consent of instructor.

Extensive programming practice to advance programming skills and processes; pair programming exercises; code review techniques and practice.

CSC 664 Multimedia Systems (Units: 3)
Prerequisite: CSC 413 with a grade of C or better.

Comprehensive topics in multimedia such as basics of image and video processing, compression, multimedia databases, standard, synchronization, formats in perspective of systems and algorithms. Extra fee required. (Plus-minus letter grade only)

CSC 665 Artificial Intelligence (Units: 3)
Prerequisite: CSC 413 with a grade of C or better.


CSC 667 Internet Application Design and Development (Units: 3)
Prerequisite: CSC 413 with a grade of C or better or consent of instructor.

Fundamental technologies on which WWW is based. Extra fee required. (CSC 867/CSC 667 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 668 Advanced Object Oriented Software Design and Development (Units: 3)
Prerequisites: Senior or graduate standing; CSC 413 with a grade of C or better; or consent of instructor.

Object oriented analysis and design utilizing UML, design patterns, frameworks and toolkits; Agile software design processes. Development of a mid-size programming project working in teams. (Plus-minus letter grade only)

CSC 671 Neural Networks (Units: 3)
Prerequisite: CSC 510 with a grade of C or better.

Artificial neural networks: associative memories, learning, search, databases, fuzzy set techniques, pattern recognition, and adaptive processing. (CSC 871/CSC 671 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 675 Introduction to Database Systems (Units: 3)
Prerequisite: CSC 413 with a grade of C or better.

Relational query languages. Semantic data models. Logical and physical database design. Privacy issues. Implementation techniques (catalogs, query optimization, concurrency control, security and integrity enforcement). Extra fee required. (CSC 775/CSC 675 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 690 Interactive Multimedia Application Development (Units: 3)
Prerequisite: CSC 340 with a grade of C or better or consent of instructor.

Basics of multimedia data formats and algorithms to build applications using non-standard interfaces such as game controllers and multi-touch surfaces. (Plus-minus letter grade only)

CSC 693 Cooperative Education Program (Units: 6-12)
Prerequisite: Upper division standing or consent of instructor.

Units do not count toward the major. May be repeated for a total of 24 units. Contact the Cooperative Education office for information. (CR/NC grading only)

CSC 694 Cooperative Education: Computer Science (Units: 1-3)
Prerequisite: Consent of instructor.

Projects undertaken in a business, government, or industrial position of at least one semester's duration.

CSC 695 Computing in the Community (Units: 2)
Prerequisites: Junior or senior standing; computer experience; consent of instructor.

Extensive fieldwork training Bay Area non-profit agencies in the use of computer tools such as conferencing and database systems. Development of user documentation. (CR/NC grading only)
CSC 697 Senior Project in Computer Science (Units: 3)
Prerequisites: CSC 415 and CSC 510, or CSC 648, or consent of instructor.
Culminating experience in individual design, implementation, and professional documentation of a software product under close supervision of a faculty member.

CSC 698 Topics in Computing (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Current topics in computer hardware/software technologies. Topic to be specified in the Class Schedule. May be repeated when titles vary.

CSC 699 Independent Study (Units: 1-3)
Prerequisites: Consent of department and instructor. An approved study proposal must be on file by the time of registration.
Library and laboratory research projects. Final report must be approved by the instructor and filed with the department.

CSC 720 Advanced Operating Systems (Units: 3)
Prerequisites: Satisfaction of Written English Proficiency Level I or concurrent enrollment in SCI 614, CSC 415 with a grade of B or better, or consent of instructor.
Analysis of scheduling and memory management algorithms, use of concurrent languages for systems development and distributed systems. Design and implementation of major components of an operating system. Extra fee required.

CSC 730 Advanced Database Systems (Units: 3)
Prerequisites: CSC 413, CSC 675, with grades of C or better.
Standard SQL, query optimization, concurrency control, crash recovery, authorization and integrity enforcement; object-oriented, extensible, deductive, and/or distributed database systems. Extra fee required.

CSC 743 Computer Networks (Units: 3)
Prerequisite: CSC 415 with a grade of C or better.
Computer network design, evaluation, and testing. Computer network standards and implementation. Hardware/software design and compatibility issues. Extra fee required.
(CSC 743/CSC 645 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 746 High-Performance Computing (Units: 3)
Prerequisite: CSC 656 with a grade of B or better or consent of instructor.

CSC 775 Introduction to Database Systems (Units: 3)
Prerequisite: CSC 413 with a grade of C or better.
(CSC 775/CSC 675 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 780 Application Development for Mobile Devices (Units: 3)
Prerequisite: Restricted to senior or graduate students in Computer Science; CSC 415 with a grade of B or better; or consent of instructor.
Introduction to and comparison of different popular mobile application frameworks; conceptual and hands-on experience in writing mobile applications using native and cross-platform tools. (Plus-minus letter grade only)

CSC 810 Analysis of Algorithms II (Units: 3)
Prerequisites: Passing score on GET or concurrent enrollment in SCI 614, CSC 510 with a grade of B or better.

CSC 820 Natural Language Technologies (Units: 3)
Prerequisite: CSC 413 with a grade of C or better or consent of instructor.
Natural language parsing technology and grammars. Elements of computational semantics, discourse structure, and generation. Survey of related topics such as information retrieval, question-answering, machine translation, speech processing. Extra fee required. (Plus-minus letter grade only)
(CSC 820/CSC 620 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 821 Biomedical Imaging & Analysis (Units: 3)
Prerequisites for CSC 821: Graduate standing; CSC 510, MATH 325, with grades of C or better or consent of instructor.
Prerequisites for CSC 621: CSC 510, MATH 325, with grades of C or better.
Introduction to medical and biological imaging, imaging physics, 3D, image formats, visualization. Basic digital image processing and analysis, filtering, registration, segmentation, quantification, performance evaluation. (Plus-minus letter grade only)
(CSC 821/CSC 621 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 825 Advanced Automata Theory (Units: 3)
Prerequisite: CSC 520 or equivalent.
Advanced topics in theoretical computer science and their application to a broad range of areas including bioinformatics, compilers, data and image compression, natural language processing, networking and Web applications. Extra fee required. (Plus-minus letter grade only)

CSC 830 Advanced Computer Graphics (Units: 3)
Prerequisite: CSC 630 or consent of instructor.
Roster graphics principles and scanning algorithms, pixel fill algorithms, anti-aliasing, clipping, hidden line, and surface display, rendering of surfaces and fractal techniques. Extra fee required.

CSC 831 Multiplayer Game Develop (Units: 3)
Prerequisite: CSC 413 or consent of instructor.
Computer graphics and network characteristics of multiplayer games. Design and development of a game as a team project.
(CSC 831/CSC 631 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 835 Distributed Systems (Units: 3)
Prerequisite: CSC 415 with a grade of B or better or consent of instructor.
Introduction to the concepts and design of distributed systems. Includes term project in using current middleware technologies. Extra fee required.
CSC 837 Advanced Sound Synthesis (Units: 3)
Prerequisite: CSC 637 with a grade of B or better or consent of instructor.
Current algorithms and practices in sound synthesis and timbral control for music, sound effects, and interactive environments. Design of real-time software synthesis systems. Extra fee required.

CSC 840 Software Metrics and Quality Assurance (Units: 3)
Prerequisite: CSC 648 or consent of instructor.

CSC 841 Computer Performance Evaluation (Units: 3)
Prerequisite: CSC 415 or consent of instructor.
Computer performance analysis problems related to system design, selection, and tuning. Modeling using stochastic and operational queuing models. Workload characterization, design, and performance measurement methods. Design of simulation models for computer systems. Extra fee required. (Plus-minus letter grade only)
(CSC 841/CSC 641 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 842 Advanced Human-Computer Interaction (Units: 3)
Prerequisite: Classified standing in graduate program.
Design, implementation, evaluation of human/computer interfaces. Topics include those covered in CSC 642; however, emphasis is placed on HCI with respect to culminating experience work. Extra fee required. (Plus-minus letter grade only)

CSC 845 Advanced Computer Networks (Units: 3)
Prerequisites: CSC 645, CSC 720, or consent of instructor.
Current design and implementation techniques for development and analysis of high-performance network protocols. Strategies appropriate for Internet use (i.e., TCP/IP based). Extra fee required.

CSC 846 Systems Architecture (Units: 3)
Prerequisite: CSC 656 with a grade of B or better or consent of instructor.
Principles of computer systems architecture with an emphasis on hardware/software interactions for large applications and design for performance. Extra fee required. (Plus-minus letter grade only)

CSC 848 Software Engineering (Units: 3)
Prerequisite: CSC 413 with a grade of C or better or consent of instructor.
Practical methods and tools for SW engineering, including organizational teamwork.
(CSC 848/CSC 648 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 849 Search Engines (Units: 3)
Prerequisite: CSC 413 or consent of instructor.
Introduction to the internals of modern search engines. Methods and tools for representation, storage, organization of, and access to textual data. (Plus-minus letter grade only) Extra fee required.

CSC 850 Compiler Design (Units: 3)
Prerequisites: CSC 413 with a grade of B or better and consent of instructor.
Design and implementation of compilers including lexical scanners, top down and bottom up parsers, precedence grammars, symbol table manipulation, LR (k) grammars, semantics routines, and code generators. Extra fee required.

CSC 856 Advanced Computer Architecture (Units: 3)
Prerequisites: Satisfaction of Written English Proficiency Level I or concurrent enrollment in SCI 614, CSC 656 with a grade of B or better, or consent of instructor.

CSC 857 Bioinformatics Computing (Units: 3)
Prerequisites: Graduate standing in science program; CSC 858; or consent of instructor.
Broad range of topics in computational biology as practiced in the life science industry and leading research organizations. Provides computational background required to participate in R&D. Extra fee required.

CSC 858 Foundations of Biotechnology and Life Sciences (Units: 3)
Prerequisite: Graduate standing in science program in the College of Science and Engineering.
Covers foundations in biotechnology and life sciences. Prepare for further study and careers in biotechnology and computational life sciences R&D and industry. Students do not need background in life sciences or biology.

CSC 864 Multimedia Systems (Units: 3)
Prerequisite: CSC 413 with a grade of C or better.
Comprehensive topics in multimedia such as basics of image and video processing, compression, multimedia databases, standard, synchronization, formats in perspective of systems and algorithms. Extra fee required. (Plus-minus letter grade only)
(CSC 864/CSC 664 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 867 Internet Application Design and Development (Units: 3)
Prerequisite: CSC 413 with a grade of C or better or consent of instructor.
Fundamental technologies on which WWW is based. Extra fee required.
(CSC 867/CSC 667 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 868 Advanced Object Oriented Software Design and Development (Units: 3)
Prerequisites: Senior or graduate standing; CSC 413 with a grade of C or better; or consent of instructor.
Object oriented analysis and design utilizing UML, design patterns, frameworks and toolkits; Agile software design processes. Development of a mid-size programming project working in teams. (Plus-minus letter grade only)
(CSC 868/CSC 668 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

1473
CSC 869 Data Mining (Units: 3)
Prerequisites: CSC 510, CSC 675, with grades of C or better, or consent of instructor.
Knowledge discovery process; basic data mining concepts; key mining algorithms, data mining in practical domains such as bioinformatics. (Plus-minus letter grade only)

CSC 870 Computational Discrete Geometry (Units: 3)
Prerequisites: CSC 210, CSC 230, MATH 325, or consent of instructor.
Comprehensive overview of basic topics in computational discrete geometry: generating functions, complexity theory, convex hull, nearest-neighbor problems, efficient algorithms, etc. (This course is offered as MATH 870 and CSC 870. Students may not repeat the course under an alternate prefix.)

CSC 871 Neural Networks (Units: 3)
Prerequisite: CSC 510 with a grade of C or better.
Artificial neural networks: associative memories, learning, search, databases, fuzzy set techniques, pattern recognition, and adaptive processing. (CSC 871/CSC 671 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CSC 872 Pattern Analysis and Machine Intelligence (Units: 3)
Prerequisites: CSC 510, CSC 520, with grades of C or better, or consent of instructor.

CSC 875 Advanced Topics in Database Systems (Units: 3)
Prerequisite: CSC 675 with a grade of C or better.
Advanced aspects of selected topics in database systems. Topics depend on availability of staff and facilities. May be repeated for a total of 6 units when topics vary.

CSC 890 Graduate Seminar (Units: 3)
Prerequisite: Consent of graduate adviser/instructor.
Topic to be specified in Class Schedule. May be repeated when topics vary. The 1 unit version is offered each semester as a graduate research seminar that students must complete prior to CSC 895/CSC 898. (Plus-minus letter grade only)

CSC 893 Supervised Industrial Research (Unit: 1)
Prerequisite: Consent of instructor.
Supervised computer science employment in software research and development area. Objectives are career development and occupational experience. May be repeated for a total of 3 units. Subsequently, may be repeated on CR/NC basis. Must be approved by graduate adviser.

CSC 895 Applied Research Project (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) for the MS in CS and Culminating Experience (CE) forms by Graduate Studies. Advancement to candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

CSC 897 Research (Units: 3-6)
Prerequisite: Consent of Computer Science Department.
Independent and original investigation under supervision of a faculty member. May be repeated for a total of 6 units.

CSC 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and graduate adviser and approval of Advancement to Candidacy (ATC) for the Master of Science in Computer Science and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

CSC 899 Independent Study (Units: 1-3)
Prerequisites: Approval of department and instructor.
Special study of a particular problem under the direction of a faculty member. The student must present a written, detailed report of the work accomplished to the staff of the department. May be repeated for a total of 6 units. (AB/NC only)
Consumer and Family Studies (CFS)

CFS 312GW Families, Individuals, and Environments - GWAR (Units: 3)
Prerequisites: Family and Consumer Sciences major; ENG 214 or equivalent with a grade of C- or better.

Family Consumer Sciences through understanding common knowledge base from the study of apparel design/merchandising, child/family development over the life span, foodservice management/nutrition, interior design/housing, and resource management. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

CFS 320 Children and Families (Units: 3)
Prerequisite: Upper division standing.

Growth, development, and enculturation of the child within the family setting through adolescence; intra-family relationships; parent-child relations. Environmental influences affecting children's cognitive, emotional, social, and physical development. Participation in action project involving children.
Course Attributes:
• UD-D: Social Sciences

CFS 321 Adolescents and Families (Units: 3)
Prerequisite: Upper division standing.

Growth and development of children from middle childhood through adolescence; patterns of maturation and individual differences. Parent-child interactions; transition from family-centered toward peer-centered environment. Problems confronting adolescents in contemporary society.

CFS 322 Early Childhood Education Curriculum (Birth to Five) (Units: 3)
Prerequisite: CFS 320 or equivalent.

Activities and learning materials that facilitate cognitive, emotional, social, physical, language, and creative development of children from birth to five: art, music, language arts, science, and dramatic play. Observing and recording children's behavior.

CFS 323 Infants/Toddlers and Families (Units: 3)
Prerequisite: Restricted to upper division Family and Consumer Sciences or Child and Adolescent Development major.


CFS 324 Administration of Infant/Toddler Programs (Units: 3)
Prerequisites: ENG 114 or equivalent, CFS 323.

Administration and supervision of group programs to provide quality care for infants and toddlers. Caregiving to support the development of attachment, perception, motor skills, cognition, language, social skills, feelings, and a sense of self in a safe and healthy environment.

CFS 325 Transitions in the Family Life Cycle (Units: 3)
Prerequisite: Restricted to upper division Family and Consumer Sciences major.

Transitions in relations throughout the family life cycle; dynamics of family interactions within family systems. Divorce, remarriage, step families and related issues. Implications of recent research for personal and family decisions. Role of marriage and family professionals.

CFS 351 Asian Food, Culture, and Hospitality (Units: 3)
Prerequisite: ENG 214.

Asian cultures and food preferences as they relate to eating habits; the influences of social, economic, and religious factors; Asian foods as herbs and medicinal uses; etiquette and cultural aspects of dining preferences for pleasurable eating. (This course is offered as HTM 351 and CFS 351. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities

CFS 352 Principles of Food Preparation (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent.

Standards and techniques in food preparation with an emphasis on factors affecting the quality of food. Practical experience in food production in accordance with food standards, sanitation, and safety. Classwork, 2 units; laboratory, 1 unit. Extra fee required.
Course Attributes:
• UD-B: Physical Life Science

CFS 355 Nutrition for Wellness (Units: 3)
Prerequisites: Upper division standing and consent of instructor.

Reliable and unreliable health information sources, present research and current controversies on common health problems and dietary interrelationships.
Course Attributes:
• UD-B: Physical Life Science

CFS 356 Foods and World Culture (Units: 3)
Prerequisite: Upper division standing.

Art and science of foods and their consumption in relation to historical, national, geographical, racial, and religious customs. Distinctive cuisine of various cultures. Evaluation of dietary habits in relation to nutritional needs of individuals.

CFS 420 Assessment and Observation with Children (Units: 3)
Prerequisite: CFS 320 or equivalent.

Interpretation, evaluation, and practice of measurement and assessment tools used with children, including observation techniques and standardized tests.

CFS 423 Administration of Programs for Young Children (Units: 3)
Prerequisites: CFS 320, CFS 323 or equivalent.

Organization, administration, development, and evaluation of programs serving young children in group settings: philosophy, program design, staffing, licensing, housing, equipment, funding, and parent involvement.
CFS 424 Supervised Experiences with Young Children (Units: 3)
Prerequisites: Restricted to Family and Consumer Sciences major; CFS 320, CFS 322, CFS 323.
Observation and participation in guiding learning experiences in early childhood settings. Developing, using, and evaluating educational activities for young children.

CFS 426 Family Crises: Drug Dependency and Eating Disorders (Units: 3)
Prerequisite: Upper division standing.
Crisis and crisis intervention theories; common disruptions in family experience; alcohol/drug dependency and eating disorders; codependency; new directions in solutions that re-establish family functioning.

CFS 428 Children and Families with Violence, Abuse, and Neglect (Units: 3)
Prerequisite for CFS 728: Graduate standing or consent of instructor. Prerequisite for CFS 428: Restricted to upper division students in Family and Consumer Sciences or Child and Adolescent Development program.
Child and family violence, abuse, and neglect throughout the life cycle with a cross-cultural focus; family patterns of victimization; profiles of victims and perpetrators; family and child relationship perspectives; intergenerational patterns of victimization. Intervention issues and services. (CFS 728/CFS 428 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CFS 430 Management Dynamics: Life Goals and Decisions (Units: 3)
Prerequisite: Restricted to upper division Family and Consumer Sciences major.
Needs, values, goals, standards, policies, and decision-making processes central to the dynamics of managing resources in the performance of family and professional roles.

CFS 453 Nutrition in the Life Cycle (Units: 3)
Prerequisites: Restricted to graduating senior in Family and Consumer Sciences or Dietetics programs or Second Bacc Dietetics; DFM 253 or CFS 355 with a grade of C- or better.
Modification of nutritional needs with changes in the life cycle. Significance of nutrition for growth and development from conception through adolescence. Influence of nutrition on the aging process.

CFS 481 Consumer and Family Studies/Dietetics Field Experience (Units: 3)
Prerequisites: Upper division standing and consent of instructor.
Field experiences may be taken concurrently with approval. Field experience in area of emphasis. Advance course application is required. Forms can be obtained from the department office. May be repeated for a total of 6 units.

CFS 543 Sustainability in the Textile, Housing, and Food Industries (Units: 3)
Prerequisite for CFS 743: Graduate standing or consent of instructor. Prerequisite for CFS 543: Upper division standing or consent of instructor.
Sustainable principles and practices, energy and water efficiency, resource conservations, economic, health and environmental issues, rating systems applied to projects; evaluation of sustainable products and processes. (CFS 743/CFS 543 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
  • UD-D: Social Sciences
  • Environmental Sustainability

CFS 600 Professional Development (Units: 3)
Prerequisites: Restricted to Apparel Design and Merchandising, Family and Consumer Sciences, or Interior Design graduating senior; GWAR course.
Professional roles and career opportunities. Portfolio development. Trends and issues in the fields of apparel, interior design, and family and consumer sciences using an integration of subject matter.

CFS 657 New York Fashion Study Tour (Units: 3)
Prerequisite: 6 units of course work in clothing and textiles or consent of instructor.
The New York fashion center. Guided tours of Seventh Avenue designer salons, the garment district, museums, famous retailers, and other areas influencing today's fashion.

CFS 685 Projects in Teaching of Consumer and Family Studies/Dietetics (Units: 3)
Prerequisites: Upper division standing in Consumer and Family Studies/ Dietetics; approval of supervising instructor; grade of B or better in course in which student will be teaching assistant.
Teaching experiences in CFS/D through assigned instructional projects in a classroom and under the guidance of a member of the faculty. Training in pedagogical principles including supervised classroom teaching activities. (Plus-minus letter grade only)

CFS 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Intensive study of a particular problem under direction of a member of the department. Enrollment by formal petition requiring signed approval of instructor. Advance course reservation in the department. May be repeated for a total of 6 units.

CFS 700 Seminar: Trends and Issues (Units: 3)
Prerequisite: Graduate standing in Consumer and Family Studies or Design and Industry.
Trends and issues in discipline-specific fields affecting individuals, families, and communities. Review of research; and application of findings to problems. (This course is offered as CFS 700 and DES 701. Students may not repeat the course under an alternate prefix.)
CFS 710 Family and Consumer Sciences Research Applications (Units: 3)
Prerequisites: Restricted to graduate standing in Family and Consumer Sciences; CFS 700; first level writing proficiency.
Critical analysis of existing research and the development of the culminating experience proposal.

CFS 728 Children and Families with Violence, Abuse, and Neglect (Units: 3)
Prerequisite for CFS 728: Graduate standing or consent of instructor.
Prerequisite for CFS 428: Restricted to upper division students in Family and Consumer Sciences or Child and Adolescent Development program.
Child and family violence, abuse, and neglect throughout the life cycle with a cross-cultural focus; family patterns of victimization; profiles of victims and perpetrators; family and child relationship perspectives; intergenerational patterns of victimization. Intervention issues and services. (CFS 728/CFS 428 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CFS 743 Sustainability in the Textile, Housing, and Food Industries (Units: 3)
Prerequisite for CFS 743: Graduate standing or consent of instructor.
Prerequisite for CFS 543: Upper division standing or consent of instructor.
Sustainable principles and practices, energy and water efficiency, resource conservations, economic, health and environmental issues, rating systems applied to projects; evaluation of sustainable products and processes. (CFS 743/CFS 543 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability

CFS 761 Advanced Apparel Design Problems (Units: 3)
Prerequisites for CFS 761: Restricted to Family and Consumer Sciences graduate student; ADM 361, ADM 362.
Prerequisites for ADM 661: Restricted to Apparel Design & Merchandising graduating senior; ADM 361, ADM 362; concurrent enrollment in ADM 560, CFS 600.
Clothing design problems related to specific populations. Development of design prototypes based on market analyses of fashion trends. Classwork, 2 units; laboratory, 1 unit. Extra fee required. (CFS 761/ADM 661 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CFS 769 Visual Merchandising and Promotion (Units: 3)
Prerequisites for CFS 769: Restricted to Family and Consumer Sciences graduate student; ID 240, a college level drawing class.
Prerequisites for ADM 569: Restricted to Apparel Design & Merchandising graduating senior; ID 240, a college level drawing class; concurrent enrollment in ADM 560, CFS 600.
Application of principles of visual presentation in window displays, point-of-purchase, and other retail venues. Practice with equipment, materials, and techniques used in the presentation of merchandise. Principles and methods of promotion for manufacturers and retailers. (CSL may be available) (CFS 769/ADM 569 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

CFS 863 Seminar in Social Entrepreneurship (Units: 3)
Prerequisite for CFS 863: Graduate standing.
Prerequisite for MGMT 863: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Exploration of how entrepreneurial individuals and companies find innovative methods to leverage scarce resources in the pursuit of social values. Special focus on socially responsible business practices used in the apparel industry. (AB/NC grading only) [CSL may be available] (This course is offered as CFS 863 and MGMT 863. Students may not repeat the course under an alternate prefix.)

CFS 881 Internship (Units: 3-7)
Prerequisite: Graduate standing or consent of instructor.
Field experience offered in cooperation with a private/public profit or nonprofit organization that enables students to acquire competencies and experience required for fulfilling professional responsibilities. Written critique of experience required. May be repeated for a total of 6 units

CFS 891 Directed Readings in Family and Consumer Sciences/Dietetics (Units: 3)
Prerequisite: M.A. candidacy in Family and Consumer Sciences.
Directed reading under supervision of a faculty member in the department.

CFS 895 Field Study (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) for the Master of Arts and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NCR, RP grading option)

CFS 897 Research in Family and Consumer Sciences/Dietetics (Units: 3)
Prerequisite: Approval of department.
Research topics germane to family and consumer sciences and/or dietetics. May not be used to satisfy the 30-unit minimum for ATC. May be repeated with departmental approval. (CR/NC grading only)

CFS 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and major adviser; approval of Advancement to Candidacy (ATC) for the Master of Arts and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

CFS 899 Independent Study (Units: 2-4)
An intensive study of a particular problem under the direction of a member of the department. Enrollment by formal petition requiring signed approval of instructor, adviser, and department chair. Available only to students who have done previous work in the department. Must be scheduled with instructor one semester in advance. May be repeated for a total of 6 units.
Counseling (COUN)

COUN 100 Relationship Studies in College and University (Units: 3)
Examination of contemporary interpersonal relationship formation for
college and university students, from youth to adulthood. Analysis of
the impact of social networks, role models, multicultural influences,
and current family structures. Application of counseling principles to
managing life transitions.

COUN 110 Critically Thinking about Career Choice: Self, Community,
Society, and World (Units: 3)
Principles and practice of critical thinking focus on career choice and
development. Examination of personal, cultural, family and community
perspectives on work life choices. Critique of labor market information
and popular media and examination of role of work locally, societally, and
globally attending to social justice and environmental issues. (Plus-minus
letter grade only)
(Note: In order for this course to satisfy General Education, students must
earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:

• E1: Lifelong Learning Develop
• A3: Critical Thinking

COUN 280 Empowering Poor Families to Graduate Out of Poverty (Units:
3)
College success course (self-directed). Consciousness and critical
thinking skills. Participation in fieldwork addressing social justice related
to wealth/poverty-health-human relation constructs/leadership in areas
of education and community health. May be repeated for a total of 6
units. [CSL may be available]
(This course is offered as H ED 280 and COUN 280. Students may not
repeat the course under an alternate prefix.)

COUN 325 Selected Problems in Counseling (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Topic to be specified in Class Schedule. May be repeated for a total of 6
units when topics vary. [CSL may be available]

COUN 425 Advanced Peer Advising (Units: 2)
Prerequisite: COUN 325 Peer Counselor Training.
Advanced leadership, communication and peer advising skills. Students
take a meaningful role in the undergraduate orientation and/or peer
advising program. May be repeated for a total of 8 units.

COUN 450 AIDS and People of Color in the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The political, psychological, social, and economic impact of AIDS/HIV
infection on diverse cultural backgrounds. Prevention and educational
strategies.
(This course is offered as COUN 450, RRS 460, and SXS 460. Students
may not repeat the course under an alternate prefix.)
Course Attributes:

• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

COUN 501 Behavior is Language: Strategies for Managing Disruptive
Behavior (Units: 3)
[Online Course] This course provides a developmental framework for
understanding what students are trying to tell you through the "language"
of their behavior in schools. The course teaches behavioral techniques
and intervention strategies that remediate disruptive behaviors, reduce
power struggles while increasing classroom control and reduce your
workloads and burnout. This program helps you, as well as students,
find creative, effective solutions to behavioral problems. After studying
behavioral theory and intervention strategies, you will be presented
with various classroom scenarios in which you will be able to practice
and hone your skills for interpreting behavior, determining appropriate
interventions and effectively debriefing your students.
(This course is offered as EDUC 501 and COUN 501. Students may not
repeat the course under an alternate prefix.)

COUN 502 Advanced Classroom Management in Schools (Units: 2)
Intended for school educators, counselors, psychologists serving children
with behavior problems in class.
Cognitive and cognitive-behavioral concept/strategies interventions.
Emphasis on students managing/changing their own behavior.
(This course is offered as EDUC 502 and COUN 502. Students may not
repeat the course under an alternate prefix.)

COUN 605 Peer Counseling Skills Seminar (Units: 3)
Prerequisite: Concurrent enrollment in COUN 606.
Peer counseling training: counseling methods and techniques, practice,
and supervised field placements. (ABC/NC grading; CR/NC allowed) [CSL
may be available]

COUN 606 Introduction to Peer Counseling Skills (Units: 3)
Prerequisite: Concurrent enrollment in COUN 605.
Clinical processes to help individual students learn listening, responding,
interpretation, decision-making, program development, implementation,
and evaluation skills. May be repeated for a total of 6 units. [CSL may be
available]

COUN 607 Advanced Peer Counseling Seminar (Units: 3)
Prerequisites: COUN 605, COUN 606.
Peer counselor training: methods, techniques, practice, and supervised
field placement. May be repeated for a total of 6 units. [CSL may be
available]

COUN 608 Advanced Peer Education Internship (Units: 3)
Prerequisites: COUN 605, COUN 606, or consent of instructor.
Students develop, plan and provide workshops and other forms
of outreach and prevention education on topics of sexual assault,
substance abuse, sexuality, and HIV/AIDS. May be repeated for a total of
6 units. [CSL may be available]

COUN 630 Legal Center Training I (Units: 3)
Prerequisites: Upper division standing, consent of instructor.
Interviewing and legal information to function appropriately in the Legal
Center 3-4 hours per week.

COUN 631 Legal Center Training II (Units: 3)
Prerequisites: Upper division standing; COUN 630; consent of instructor.
Practice in interviewing skills and additional legal information for staffing
the Legal Center 4 hours per week.
COUN 632 Student Leadership Development (Units: 3)
Prerequisite: Must hold current student organization or government leadership position.
Leadership and leadership styles: analysis and observations of others’ leadership.

COUN 690 Field of Counseling I (Units: 3)
Prerequisite: PSY 200 or graduate status or consent of instructor.
Professional identity for career, college, marriage and family, rehabilitation, school, gerontological counseling. Career decision-making, mid-life, career change, pre-retirement guidance, and mental illness. Computer technology and counseling. History, ethics, and self-awareness. (Plus-minus letter grade only)

COUN 691 Multicultural Human Relations (Units: 3)
Prerequisite: Upper division standing.
Psychosocial perspectives on attitudes, knowledge, and insights essential to effective multicultural relationships and the examination of culture as it relates to ethnicity, gender, physical and learning abilities, race, sexual orientation, and class. (Plus-minus letter grade only)

COUN 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Intensive study of a particular problem under direction of a department member. Enrollment by petition approved by the instructor, advisor, and department chair. Open to enrolled students only. May be repeated for a total of 6 units. [CUL may be available]

COUN 700 Theories of Counseling and Psychotherapy (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; approved undergraduate course in personality theories.
Theories of counseling and personality. Counseling process and practice relating to major approaches; therapeutic practices with illustration of relevant techniques and cases. (Plus-minus letter grade only)

COUN 702 Developmental Foundations for Counselors (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, Clinical Mental Health Counseling and Rehabilitation Counseling; approved undergraduate course in lifespan human development.
Theories of human development and learning; adaptive behavior to normal development and congenital and traumatic disability; dynamics of family, home, and societal influences and implications for counseling. (Plus-minus letter grade only)

COUN 703 Psychological Foundations for Counselors (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; undergraduate course in psychopathology or abnormal behavior.
Theories of mental health and mental illness, classification of behavior disorders, diagnosis and prognosis, psychological impairment, psychological issues related to physical disability, implications for counseling and therapeutic interventions. (Plus-minus letter grade only)

COUN 704 Psychosocial Aspects of Disability and Chronic Illness (Units: 3)
Prerequisites: Restricted to classified graduate students in Clinical Mental Health Counseling.
Exploration of psychological and social aspects of disability and chronic illness. Definitions and models of disability and chronic illness, societal response, environmental factors, and individual response to disability and chronic illness. Impact of disability and chronic illness on the family. Adjustment to disability and cultural issues. (Plus-minus letter grade only)

COUN 705 Counseling Practicum (Units: 3)
Prerequisite: Contracted with an approved field training site. Students must be matriculated as graduate students in the counseling department at SF State. COUN 702 (may be concurrently enrolled). Must be taken concurrently with COUN 706.
Initial practicum experience. Clinical interviewing skills. Development of clinically and culturally competent interviewing, assessment and intervention skills that reflect an integration of a counselor’s understanding of oneself and others as well as the integration of counseling theories that inform interventions. (CR/NC grading only) [CUL may be available]

COUN 706 Counseling Skills and Process (Units: 3)
Prerequisites: Students must be matriculated as graduate students in counseling department at SF State; COUN 702 (may be taken concurrently); must be taken concurrently with COUN 705. Must earn a grade of B or better. Contracted with an approved field training site.
Development of self-awareness, knowledge, and skills as the relate to clinical interviewing. Development of basic clinical skills in relationship to the design of client intervention, including interviewing, rapport building, assessment, case conceptualization, crisis management. Development of basic sense of self in clinical interviewing; individual growth in clinical process. (Plus-minus letter grade only) [CUL may be available]

COUN 714 Writing for Counselors (Units: 3)
Prerequisite: Graduate standing in counseling or consent of instructor.
Designed to develop graduate writing skills for counseling students, strengthen writing organization and report writing, learn to integrate bibliographic sources and use APA style. May not be used to meet ATC requirement. (CR/NC only)

COUN 715 Assessment in Counseling (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Clinical process of testing; individual counselor’s ability to clinically analyze and interpret assessment instruments, including diagnostic tests for various counseling specializations. (Plus-minus letter grade only)

COUN 716 Professional Seminar I - Structural Elements in School Counseling (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Institutional structure and culture of schools, relevant laws and ethics, trends in guidance and counseling and design of comprehensive counseling programs. (Plus-minus letter grade only)
COUN 717 Professional Seminar II - Functional Elements in School Counseling (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 716.
Normative roles of school counselors in a changing world, provides skills to address issues and develop a school counseling philosophy. (Plus-minus letter grade only)

COUN 718 Professional Seminar III - Professional Issues in School Counseling (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 716, COUN 717.
Professional issues, aspects of professional identity, and development of understanding of a systems theoretical approach to working in schools. (Plus-minus letter grade only)

COUN 719 Behavior Management (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling and Psychology or School Psychology Credential Program.
Behavioral, cognitive-behavioral, and ecobehavioral theory and intervention applied to human behavior change. Primary focus on classroom behavior management. (Plus-minus letter grade only)
(This course is offered as COUN 719 and PSY 857. Students may not repeat the course under an alternate prefix.)

COUN 720 Career Counseling (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Dynamics of vocational choice and occupational adjustments: social learning and developmental tasks, educational and vocational information; counseling process in occupational planning. (Plus-minus letter grade only)

COUN 721 Applied Career Counseling (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 720 (may be taken concurrently).
Application of career counseling theories and techniques in individual and group career counseling. Use of career assessment in career counseling. Application of counseling to issues of well-being related career. (Plus-minus letter grade only)

COUN 727 Advanced Career Counseling (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 720.
Techniques in conducting personal career research and informational interviews; skills and knowledge necessary to establish a viable career placement center. (Plus-minus letter grade only)

COUN 735 Advanced Practicum and Internship (Units: 3)
Prerequisites: COUN 705, COUN 706, and consent of instructor. Must be taken concurrently with COUN 736.
Supervised internship for 12 hours minimum a week in appropriate clinical facilities. (CR/NC grading only) [CSL may be available]

COUN 736 Advanced Counseling Process (Units: 3)
Prerequisites: COUN 700 (may be taken concurrently), COUN 705, COUN 706. Must be contracted with an approved field training site. Enrolled counseling graduate student.
Clinical counseling case analysis; individual counselor growth assessment, management, and disposition of clients. Second semester of field placement. Rehabilitation Counseling students must take section with a CRC. Career and College Counseling students may take COUN 736 prior to completing COUN 703. Must earn grade of B or better. (Plus-minus letter grade only) [CSL may be available]

COUN 737 Psychopharmacology in Counseling (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Introduction to the psychopharmacology of mental disorders and to psychiatric medications; major classes of psychiatric medications and their side effects. (CR/NC grading only)

COUN 738 Addictions (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Dynamics, behaviors, biochemical processes, and treatment interventions related to addictions, including chemical, behavioral, and psychological. Recovery models emphasized. Legal and cultural factors incorporated.
(Plus-minus letter grade only)

COUN 741 Crisis Counseling for Counselors (Units: 3)
Prerequisites: Graduate standing; preference to SF State counseling graduate students.
Current theories and practice related to trauma and crisis intervention. Focused on impact of crises and other traumatic events and basic intervention counseling strategies for helping survivors make meaning of their experiences to envision new possibilities. (Plus-minus AB/NC grading only)

COUN 792 Seminar for Counselors in Student Personnel Services (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Organization, management, and delivery of college student services: organizational theory, management strategies and styles, program development, management, implementation, evaluation. (Plus-minus letter grade only)

COUN 793 Organization and Administration of Student Services in Higher Education (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.
Seminar in organization and management of college student services: organizational theory; development, structures; management strategies and styles, decision making, management by objectives, administrative models; staff development; evaluation; accountability, budget planning, management; program development, evaluation; legal issues. (Plus-minus letter grade only)
COUN 794 Seminar in Research (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.

Identification and analysis of research problems related to health and human services; research methodology and techniques, including designs appropriate to clinical research problems including critique and interpretation of research reports. (Plus-minus letter grade only)

COUN 811 Group Counseling Process (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 706.

Instruction in group counseling dynamics: clinical analysis of group counseling sessions conducted by students. Focus on professional growth as a group counselor. (Plus-minus letter grade only)

COUN 820 Counseling the Older Adult (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Individual and group counseling; couples and family counseling with the older adult; sexuality, lifestyle, and economics of older adults. (Plus-minus letter grade only)

COUN 827 The Consultation Process (Units: 1-3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, Clinical Mental Health Counseling, and psychology.

Dynamics of the consultation process; implications for various specialists in developing effective working relationships with teachers and parents.

COUN 833 Social and Cultural Foundations in Counseling (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.

Self-examination, knowledge expansion and skill building regarding multiple dimensions of culture - race, ethnicity, gender, sexual orientation, socioeconomic status, physical and learning abilities. Exploration of systems of privilege, oppression, the cultural assumptions of counseling, the role of the counselor as change agent. (Plus-minus letter grade only)

COUN 840 Wellness, Recovery and Psychosocial Rehabilitation in Social Work and Mental Health (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 810 or mental health experience; and consent of instructor.

Examination of concepts and practices of wellness, recovery, psychosocial rehabilitation and system transformation in community mental health. Critical review of diagnostic and treatment issues, disability, healing, and services throughout the lifespan. (Plus-minus letter grade only)
(This course is offered as S W 840 and COUN 840. Students may not repeat the course under an alternate prefix.)

COUN 850 Second Specialization Internship (Units: 1-3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; and consent of Field Placement Coordinator.

Internship for individuals who are not in a practicum and need university monitoring to accrue hours. May be repeated for a total of 9 units. (CR/NC grading only) [CPL may be available]

COUN 857 Law and Ethics for Counselors (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.

Legal and ethical responsibilities of counselors: confidentiality, privilege, reporting; legal obligations regarding professional practice and liability; professional codes of ethics; laws relating to minors, marriage, and the family; child abuse assessment and intervention; partner violence assessment and intervention. (Plus-minus letter grade only)

COUN 858 Couple and Family Counseling I (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 700, COUN 706.

Major theoretical approaches: analytic, behavioral, systems, intergenerational, and existential. Reading, demonstrations, activities emphasize working with couples. (Plus-minus letter grade only)

COUN 859 Counseling Aspects of Sexuality (Units: 2)
Prerequisite: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling.

Major sexual problems encountered in counseling; causes; counseling approaches; techniques and treatments; clinical implications including feminine orientations. Satisfies MFCC requirements for child sexual abuse and human sexuality. (Plus-minus letter grade only)

COUN 860 Couple and Family Counseling II (Units: 3)
Prerequisites: COUN 858, consent of instructor.

Applied psychotherapeutic techniques in working with families and relationships. Emphasis on direct experience working with families through simulations, demonstrations, case material. (Plus-minus letter grade only)

COUN 861 Seminar on Child Treatment (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling, Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 736.

Concepts, processes, techniques of child and adolescent treatment, crisis intervention, supportive counseling, and psychotherapeutic treatment. (Plus-minus letter grade only)
COUN 870 Case Management and Special Topics in Rehabilitation Counseling (Units: 3)
Prerequisites: Graduate standing; COUN 764, COUN 762, COUN 766; priority enrollment for Counseling graduate student.
Roles and functions of case management, case load management, and contemporary rehabilitation services beyond public vocational rehabilitation including psychiatric rehabilitation, school-to-work transition, disability management, forensic rehabilitation, insurance programs, aging and life care planning, and community-based services. (Plus-minus letter grade only)

COUN 890 Integrative Counseling and Internship (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 735, COUN 736.
Contracted with an approved field training site. Integrate and apply counseling constructs: assessment, diagnosis, treatment, planning, clinical interventions, law and ethics, and therapeutic relationships. Emphasis on professional identity as counselors. Proficiency in recovery models. Oversight of fieldwork. Must earn a grade of B or better. (Plus-minus letter grade only)

COUN 891 Case Studies and Internship Seminar (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; must be taken concurrently with COUN 892; contracted with an approved field training site.
Advanced counseling and case study analysis for counselor trainees. Multicultural counseling competence and integration of empirically based interventions. Internship supervision and coaching. Must earn a grade of B or better. (Plus-minus letter grade only) [CSL may be available]

COUN 892 Culminating Experience for Counselors (Units: 3)
Prerequisites: Restricted to classified graduate students in Counseling. Counseling: Concentration in Marriage, Family, and Child Counseling, and Clinical Mental Health Counseling; COUN 890, must be taken currently with COUN 891; contracted with an approved field training site; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Culminating experience paper demonstrating competent ability to apply knowledge of counseling theory to the field. Paper synthesizes knowledge, skills, and abilities learned during the course of the counseling program. Emphasizes writing a scholarly, professional paper integrating field placement experience and academic knowledge. (CR/NC/RP grading only) [CSL may be available]

COUN 899 Independent Study (Units: 1-3)
Special study under the direction of a department member. Open only to graduate students of demonstrated ability to do independent work. May be repeated for a total of 6 units.
Creative Writing (C W)

C W 101 Introduction to Creative Writing (Units: 3)
The creative writing process. Exercises in writing poetry, fiction, and
dramatic scripts. Selected readings of exemplary stories, poems, and
plays. Open to all students.
Course Attributes:
   • E1: Lifelong Learning Develop
   • C1: Arts

C W 301 Fundamentals of Creative Writing (Units: 3)
Prerequisite: ENG 114 or equivalent. Enrollment limited to creative writing
majors; non-majors admitted with consent of instructor.
Practice in writing poetry, fiction, and plays. Required for majors.

C W 302 Fundamentals of Creative Reading (Units: 3)
Prerequisite: ENG 114 or equivalent. Enrollment limited to creative writing
majors; non-majors admitted with consent of instructor.
Students learn to read like writers through lecture-discussion and reading
assignments. Submerges the student in literature and asserts the
importance of reading.

C W 465 Modern Greek Poetry in Comparative Perspective (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Greece's prominent modern poets in comparison with major
Anglo-American and European poets. Poets to be studied can include
(This course is offered as MGS 465, CWL 465, and C W 465. Students may
not repeat the course under an alternate prefix.)

C W 497 Modern Greek Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to Greece’s major modernist and postmodernist writers.
Exploration of experimental writing techniques using 20th Century
literature.
(This course is offered as MGS 497 and C W 497. Students may not
repeat the course under an alternate prefix.)

C W 506 The Business of Creative Writing (Units: 3)
Prerequisite for C W 806: Restricted to graduate student in creative
writing or consent of instructor.
Prerequisites for C W 506: Restricted to CW majors; C W 101 or C W 301
with a grade of C or better; non-majors admitted with consent of
instructor.

Covers agents, corporate and small publishing houses, E-publishing,
markets, publicity, etc. Students write letters to agents/editors, press
releases for book tours, and several short papers.
(C W 806/C W 506 is a paired course offering. Students who complete the
course at one level may not repeat the course at the other level.)

C W 507 Writing on the Body (Units: 3)
Prerequisites: Upper division standing; C W 101 or C W 301.
Concerns themes of human sexuality and gender in their psychological,
social, political, moral, and aesthetic dimensions, combined with personal
experience and personal expression. Sexual values are examined through
artistic expression and analysis of expressive works.

C W 508 Introduction to Environmental Literature (Units: 3)
Prerequisites: Major in creative writing, liberal studies, or environmental
studies with a concentration in humanities and the environment; second
year composition with a grade of C- or better.
Exploration of the history of contemporary environmental literature;
examination of questions of environmental stability and change,
environmental justice, human connections to the non-human world and
biological studies to discover connections between nature and writing.
Course Attributes:
   • UD-C: Arts and/or Humanities
   • Environmental Sustainability

C W 510 The Creative Process (Units: 3)
Prerequisite: C W 101 or C W 301 with grade of C or better. Enrollment
limited to creative writing majors; non-majors admitted with consent of
instructor.
Examination of creative process, emphasizing techniques, style, and
structure. Topic to be specified in Class Schedule. May be repeated when
topics vary.

C W 511GW Craft of Poetry - GWAR (Units: 3)
Prerequisites: Restricted to Creative Writing major; ENG 214 or equivalent
with a grade of C- or better; CW 301 or equivalent.
Focus on basic craft elements of poetry: diction, imagery, rhythm, voice
(ABC/NC only)
Course Attributes:
   • Graduation Writing Assessment

C W 512GW Craft of Fiction - GWAR (Units: 3)
Prerequisites: Restricted to Creative Writing major; ENG 214 or equivalent
with a grade of C- or better, C W 301 or equivalent.
Focus on basic craft elements of fiction: plot, dialogue, character, point of
view and place. Discussion of student and professional writing. (ABC/NC
only)
Course Attributes:
   • Graduation Writing Assessment

C W 513GW Craft of Playwriting - GWAR (Units: 3)
Prerequisites: Restricted to Creative writing major; ENG 214 or equivalent
with a grade of C- or better; C W 301 or equivalent.
Focus on basic craft elements of playwriting: scene, story, dialogue,
character, and conflict. Discussion of student and professional writing.
(ABC/NC grading only)
Course Attributes:
   • Graduation Writing Assessment

C W 514 Contemporary World Poetry (Units: 3)
Prerequisites: Enrollment limited to creative writing majors; C W 301 or
C W 101 with a grade of C or better; non-majors admitted with consent of
instructor.
Study of techniques and craft in a wide selection of contemporary poetry
from various cultures and nations.
(C W 814/C W 514 is a paired course offering. Students who complete the
course at one level may not repeat the course at the other level.)
C W 520 Writers on Writing (Units: 3)  
Prerequisite for C W 820: Graduate standing or consent of instructor.  
Prerequisite for C W 520: ENG 214 or equivalent; open to all students.

Faculty and visiting writers representing a range of styles and subjects read from their works and discuss their creative process with students.  
(C W 820/C W 520 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 550 Poetry Center Workshop (Units: 3)  
Prerequisite for C W 850: Graduate standing in any discipline or consent of instructor.  
Prerequisite for C W 550: ENG 114 or consent of instructor; open to all students.

A poetry writing and study course aligned with The Poetry Center Reading Series, featuring guest performances throughout the semester by outstanding local, national, and international poets, writers, musicians and related artists.  
(C W 850/C W 550 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 600 Special Topics in Writing (Units: 3)  
Prerequisites: C W 301 or C W 101 with a grade of C or better. Enrollment limited to creative writing majors; non-majors admitted with consent of instructor.

Intensive study of a particular area in poetry, fiction, or play writing.  
Writing projects in area of study. Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)

C W 601 Work in Progress (Units: 3)  
Prerequisite: Restricted to senior creative writing major.

Capstone course for seniors in which undergraduate final project is completed.

C W 602 Playwriting (Units: 3)  
Prerequisites: Restricted to C W major; C W 301 and C W 511GW or C W 512GW or C W 513GW; or consent of instructor

Writing and analysis of plays. Discussion of problems such as craft, aspects of voice, form, characterization, and dialogue. May be repeated for a total of 6 units. (Plus-minus letter grade only)

C W 603 Short Story Writing (Units: 3)  
Prerequisites: C W 301 and C W 511GW or C W 512GW or C W 513GW.  
Enrollment limited to creative writing majors; non-majors admitted with consent of instructor.

Writing and analysis of short fiction in a workshop setting. Lectures on craft, reading for development, and story development. May be repeated for a total of 6 units.

C W 604 Poetry Writing (Units: 3)  
Prerequisites: Restricted to creative writing majors; C W 301 and C W 511GW or C W 512GW or C W 513GW.

Writing and analysis of poetry in a workshop setting. Emphasis on poetic form, style, voice, the line, as well as rhyme, rhythm, meter, imagery and metaphor. May be repeated for a total of 6 units.

C W 605 Writing and Performing Monologues (Units: 3)  
Prerequisites: Restricted to Creative Writing, English Education, and Drama majors; TH A 130. For C W majors: C W 301, C W 511GW or C W 512GW or C W 513GW.

Workshop in creation of contemporary performance monologues. Development of original pieces through writing, performance, and critique; study of artists in the field.  
(This course is offered as TH A 605 and C W 605. Students may not repeat the course under an alternate prefix.)

C W 609 Directed Writing for B.A. Students (Units: 3)  
Prerequisite: Consent of instructor.

Apply to instructor during semester prior to desired enrollment. Preference given to majors. Individual conferences to direct the student's project in one of the creative writing forms. May be repeated for a total of 9 units.

C W 640 Transfer Literary Magazine (Units: 3)  
Prerequisite: C W 301 or consent of instructor.

Selection of original work for an undergraduate literary magazine. Book reviews, interviews, design, production, and distribution. May be used to fulfill 3 units of the creative process requirement.

C W 675 Community Projects in Literature (Units: 3)  
Prerequisite for C W 875: Restricted to graduate student in creative writing program or consent of instructor.

Prerequisites for C W 675: Restricted to creative writing major; C W 301 or C W 101 with a grade of C or better; or consent of instructor.

Students use their writing skills by doing internships with community literary organizations. May be repeated for a total of 6 units under one level. (Plus-minus letter grade only) [CWL may be available]  
(C W 875/C W 675 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 685 Projects in the Teaching of Creative Writing (Units: 3)  
Prerequisites: Advanced undergraduate standing in creative writing and approval of chair; a grade of C or better in course in which student will be aide.

Students are placed with a creative writing faculty member in a supervised practicum/internship experience where they explore the theoretical and practical aspects of teaching creative writing. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

C W 699 Independent Study (Units: 1-3)  
Prerequisite: Consent of instructor.

Under exceptional circumstances upper division students may enroll for special work under the supervision of a member of the Creative Writing faculty. May be repeated for a total of 9 units.

C W 785 Graduate Projects in the Teaching of Creative Writing (Units: 3)  
Prerequisites: Classified graduate standing in creative writing; a grade of B or better in the course or its equivalent in which the student will be an aide; consent of instructor.

Supervised practicum/internship experience with a creative writing faculty member; exploration of theoretical and practical aspects of teaching creative writing; practice in leading group discussions and tutoring. MFA students may apply a total of 9 units toward degree; MA students may apply no more than 3 units toward degree.
C W 803 Advanced Short Story Writing (Units: 3)
Prerequisite: Restricted to graduate student in creative writing or consent of instructor.

Writing short stories, emphasizing the development of the student's creative and critical abilities. May be repeated for a total of 9 units.

C W 804 Advanced Poetry Writing (Units: 3)
Prerequisite: Restricted to graduate student in creative writing or consent of instructor.

Writing poetry with emphasis on analysis of student work and growth of critical abilities. May be repeated for a total of 9 units.

C W 806 The Business of Creative Writing (Units: 3)
Prerequisite for C W 806: Restricted to graduate student in creative writing or consent of instructor.
Prerequisites for C W 506: Restricted to CW majors; C W 101 or C W 301 with a grade of C or better; non-majors admitted with consent of instructor.

Covers agents, corporate and small publishing houses, E-publishing, markets, publicity, etc. Students write letters to agents/editors, press releases for book tours, and several short papers.
(C W 806/C W 506 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 807 Developing the Novel (Units: 3)
Prerequisite: Restricted to graduate student in creative writing or consent of instructor.

Writing workshop for students in the early phases of writing a novel.

C W 808 Novel Writing (Units: 3)
Prerequisites: Restricted to graduate student in creative writing; C W 807; or consent of instructor.

Writing and analysis of longer forms of fiction. Personal consultations. May be repeated for a total of 9 units.

C W 809 Directed Writing for Graduate Students (Units: 3)
Prerequisites: Restricted to graduate student in creative writing and consent of instructor.

Apply to instructor during the semester prior to desired enrollment. Through individual conferences the student is directed in a project in one of the forms of creative writing. May be repeated for a total of 9 units. Students may register for different genres concurrently.

C W 810 Seminar in the Creative Process (Units: 3)
Prerequisite: Restricted to graduate student in creative writing or consent of instructor.

Examination of creative process, emphasizing techniques, style, and structure. Topic to be specified in Class Schedule. May be repeated for credit when topics vary.

C W 814 Contemporary World Poetry (Units: 3)
Prerequisites: Enrollment limited to creative writing majors; C W 301 or C W 101 with a grade of C or better; non-majors admitted with consent of instructor.

Study of techniques and craft in a wide selection of contemporary poetry from various cultures and nations.
(C W 814/C W 514 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 820 Writers on Writing (Units: 3)
Prerequisite for C W 820: Graduate standing or consent of instructor.
Prerequisite for C W 520: ENG 214 or equivalent; open to all students.

Faculty and visiting writers representing a range of styles and subjects read from their works and discuss their creative process with students.
(C W 820/C W 520 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 825 Playwright's Theatre Workshop (Units: 3)
Prerequisite: Restricted to graduate students in creative writing or consent of instructor.

Projects designed to give playwrights opportunities to refine their craft through workshops, rehearsals, readings, and dramaturgical assignments. May be repeated for a total of 9 units.

C W 840 Fourteen Hills Literary Magazine (Units: 3)
Prerequisite: Restricted to graduate student in creative writing; or consent of instructor.

Editing and publishing Fourteen Hills, the graduate literary magazine of the Creative Writing Department. Selection of material, design, production, and distribution. May be repeated for a total of 6 units.

C W 850 Poetry Center Workshop (Units: 3)
Prerequisite for C W 850: Graduate standing in any discipline or consent of instructor.
Prerequisite for C W 550: ENG 114 or consent of instructor; open to all students.

A poetry writing and study course aligned with The Poetry Center Reading Series, featuring guest performances throughout the semester by outstanding local, national, and international poets, writers, musicians and related artists.
(C W 850/C W 550 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 852 MFA Workshop in Creative Nonfiction (Units: 3)
Prerequisites: Restricted to graduate student in MFA creative writing; priority enrollment given to MFA creative nonfiction students; open to other MFA genre and MA creative nonfiction students only on a space available basis, to be determined at the first class meeting.

Creation and revision of original creative nonfiction to a finished, publishable state. May be repeated for a maximum of 18 units.

C W 853 M.F.A. Workshop in Fiction (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Students are expected to concentrate on revision of fiction, on bringing work to a finished, publishable state. Emphasizes the short story. May be repeated for a total of 18 units.

C W 854 M.F.A. Workshop in Poetry (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Students are expected to concentrate on revision of poetry, on bringing work to a finished, publishable state. May be repeated for a total of 18 units.
C W 855 M.F.A. Workshop in Playwriting (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Students are expected to concentrate on revision of a play, on bringing work to a finished state, ready for production. May be repeated for a total of 18 units.

C W 856 M.F.A. Workshop in Short Plays (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Students write a series of five-minute plays, ten-minute plays, and a one-act play that may be presented in conjunction with TH A 661. May be repeated for a total of 9 units.

C W 859 Practicum in Teaching (Units: 3)
Prerequisite: Restricted to graduate student in creative writing; or consent of instructor.

Pedagogical grounding for pragmatic classroom teaching work and structure in which to work with undergraduates, under the supervision of experienced faculty and in collaboration with other graduate students.

C W 860 Teaching Creative Writing (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Theoretical and practical aspects of teaching creative writing. (Plus-minus letter grade only.)

C W 866 Craft of Translation (Units: 3)
Prerequisite: Restricted to graduate student in creative writing or consent of instructor.

Literary translation: the art and craft of translation. Students familiarize themselves with the best models and develop skills in their own translation.

C W 867 Theory of Translation (Units: 3)
Prerequisites: Restricted to graduate student in M.A. English: Creative Writing or M.F.A. Creative Writing; working knowledge of a language other than English.

Examination of the art of translation from a wide range of theoretical perspectives. Focus on linguistic, literary, political, and philosophical aspects of transfer of meaning between languages in an era of globalization. Evaluation of contending theories and application to the practice of translation.

C W 875 Community Projects in Literature (Units: 3)
Prerequisite for C W 875: Restricted to graduate student in creative writing program or consent of instructor.
Prerequisites for C W 675: Restricted to creative writing major; C W 301 or C W 101 with a grade of C or better; or consent of instructor.

Students use their writing skills by doing internships with community literary organizations. May be repeated for a total of 6 units under one level. (Plus-minus letter grade only) [CSL may be available] (C W 875/C W 675 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

C W 880 M.F.A. Craft and Process Tutorial in Fiction (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Examination of creative process, emphasizing techniques, style, and structure. Topic to be specified in Class Schedule. May be repeated for a total of 18 units when topics vary.

C W 881 M.F.A. Craft and Process Tutorial in Poetry (Units: 3)
Prerequisite: Restricted to graduate student in MFA in creative writing or consent of instructor.

Examination of creative process, emphasizing techniques, style, and structure. Topic to be specified in Class Schedule. May be repeated for a total of 18 units when topics vary.

C W 882 M.F.A. Craft and Process Tutorial in Playwriting (Units: 3)
Prerequisite: Restricted to graduate student in the M.F.A. in Creative Writing or consent of instructor.

Examination of creative process, emphasizing techniques, style, and structure. Topic to be specified in Class Schedule. May be repeated for a total of 18 units when topics vary.

C W 893MA Written M.A. Creative Project (Units: 3)
Prerequisites: Consent of instructor and major adviser; approval of Advancement to Candidacy (ATC) for the Master of Arts in English: Creative Writing and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

C W 893MFA Written M.F.A. Creative Work (Units: 6)
Prerequisites: Consent of instructor and major adviser; approval of Advancement to Candidacy (ATC) for the Master of Fine Arts and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

C W 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor.

A special study is planned, developed, and completed under direction of a faculty member. Open only to graduate students of demonstrated ability to do independent work. Enrollment by petition (form available in department office).
Credit by Evaluation for Experiential Learning (CEEL)

CEEL 300 Learning From Prior Experiences (Units: 1-6)
Prerequisite: Upper division standing or consent of instructor.

Supervision in the preparation of a portfolio documenting prior learning experiences. Development and analysis of learning skills needed in the assessment of prior learning. Consideration of potential application of these learning techniques to current and future learning settings. May be repeated for a total of 6 units. For additional information, contact Advising Center. (CR/NC grading only)
Criminal Justice Studies (C J)

C J 300 Criminal Justice: A Cross-Disciplinary Perspective (Units: 4)
Prerequisites: Upper division standing; ENG 214 with a grade of C- or better; completion of any segment I Critical Thinking course with a grade of C- or better.

Analysis and critique of the contemporary criminal justice system. Includes field observation and guest lecturers. Classwork; 3 units; fieldwork; 1 unit.
Course Attributes:
• UD-D: Social Sciences
• Social Justice

C J 323GW Ethics in Criminal Justice - GWAR (Units: 3)
Prerequisites: Restricted to upper division Criminal Justice majors; C J 300 (may be taken concurrently), ENG 214 or equivalent with a grade of C- or better.

Explores ethical issues related to the institution of the criminal justice system, the professions of criminal justice, and politics intended to address crime, law, and justice. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

C J 330GW Research Methods in Criminal Justice-GWAR (Units: 4)
Prerequisites: Restricted to upper division Criminal Justice majors; ENG 214 or equivalent with a grade of C- or better; C J 300 (may be taken concurrently).

“'Heuristics’ refers to data gathering. How, by what basic procedures, is data gathered in criminal justice? Data gathering strategies and techniques, the nature of data gathered by official, governmental agencies, and alternatives to the present arrangement. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

C J 335 Legal Writing and Research (Units: 4)
Prerequisites: Upper division standing; C J 300 (may be taken concurrently), GWAR course; or consent of instructor.

The legal brief as the focus of strong inference writing in criminal justice. Classwork, 3 units; fieldwork, 1 unit.

C J 340 Comparative Criminal Justice (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Ways in which institutions of criminal justice in one society compare with those in other societies. Attention is given to U.S., British, European, Asian, and African systems. Classwork, 3 units; fieldwork, 1 unit.
(This course is offered as C J 340 and I R 341. Students may not repeat the course under an alternate prefix.)

C J 400 Police and Public Policy (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Scope of police activities, police administration, discretion, accountability, affirmative action, public relations, new technologies, and changing criminal procedure. Issues that the police can and should accomplish, by what rules, and under whose control.

C J 401 Criminal Profiling (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Analysis of the application of personality studies in homicide, arson, rape, and terrorist cases.

C J 405 Organized Crime (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Organized criminal enterprise recognizes no geographic, legal, or moral boundaries. Salient characteristics and impact of criminal organizations in various settings; crime control strategies.

C J 435 Race, Crime, and Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Ethnic studies methods and cross-cultural perspectives examine the rise of institutions of law enforcement, juvenile and criminal justice, case studies, life histories, community service learning internships. [CSL may be available]
(This course is offered as LTNS 430 and C J 435. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Social Justice

C J 450 Jails and Prisons (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Political economy of the prison industry in the U.S.; the jail as well as the prison. Field study at San Quentin and the San Francisco jails.

C J 451 The Architecture of Incarceration (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

The connections between architectural design and management of U.S. jails and prisons.

C J 452 Criminological Theory (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Social, economic, and political context in which criminological theories (past and present) emerged and how they are reflected in legal practices. (This course is offered as SOC 451 and C J 452. Students may not repeat the course under an alternate prefix.)

C J 460 Community Corrections and Sentencing (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Deinstitutionalization movement within the prison industry in the U.S. Development of the scale and reach of the prison industry, incarceration rates relative to violent and non-violent offenses, incarceration rates for drug offenses, development of decentralized, community-related sentencing.

C J 461 Terrorism and Covert Political Warfare (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Terrorism and covert political warfare as international instruments especially since World War II. The use of terror and covert political warfare and the responses to their use. (This course is offered as C J 461 and I R 361. Students may not repeat the course under an alternate prefix.)
C J 470 Juvenile Justice (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Analysis of "delinquency", emergence and administration of juvenile law, and analysis of social organizations for youthful offenders. Classwork, 3 units; fieldwork, 1 unit. [CSL may be available]
(This course is offered as SOC 462 and C J 470. Students may not repeat the course under an alternate prefix.)

C J 471 Contemporary Issues in Juvenile Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of the punitive turn in juvenile justice and the impact on youth. Consideration of how changing concepts of childhood, criminal behavior, and moral development impacted the juvenile court system. Analysis of how courts have responded to the punitive turn with a focus on reform and decarceration.

C J 475 Intervention Policies in Juvenile Justice (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent on instructor.

Critical examination of juvenile justice treatment and intervention policies over the past 200 years. Special emphasis on contemporary systems of care and revolutionizing practices.

C J 480 California Corrections System (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Development of California's correctional system, among the ten largest in the world. Critical junctures, including the introduction of the convict labor system, good time, progressive penology, and the prison building boom.

C J 485 Latina/o Youth, Crime, and Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of Latino juvenile justice, the myths and realities, and the over incarceration of Latino youth: its sources, costs, and consequences; and impact on individuals, families, and communities. Latino experiences with schooling, police, gangs, drugs, "juvie," and caseworkers are covered. [CSL may be available]
(This course is offered as LTNS 485 and C J 485. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Social Justice

C J 501 Criminal Law (Units: 3)
Prerequisites: Upper division standing; C J 300, GWAR course; or consent of instructor.

Substantive criminal law: legal adjudication within the criminal justice system, the criteria according to which guilt is established. Types of crime: homicide, rape, theft, business crimes. Disposition of convicted offenders. [CSL may be available]

C J 502 Criminal Procedure (Units: 3)
Prerequisites: Upper division standing; C J 300, GWAR course; or consent of instructor.

The salient norms of criminal adjudication as they have developed in case law reflecting 4th, 5th, and 6th Amendment issues incorporated via the 14th Amendment. Reasonableness, probable cause, privacy, penumbral rights, assistance of counsel, federalism.

C J 505 International Criminal Law (Units: 4)
Prerequisites: Upper division standing; C J 300, a GWAR course; or consent of instructor.

Comparative legal systems and the U.S. system of criminal law. Classwork, 3 units; fieldwork, 1 unit.
(This course is offered as C J 505 and I R 332. Students may not repeat the course under an alternate prefix.)

C J 510 Analysis of the Felon in Society (Units: 3)
Prerequisites: Restricted to upper division Sociology and Criminal Justice majors; completion of GE Areas A and B4 requirements; or consent of instructor

Examination of the process of Re-entry (post-incarceration) from the perspective of individuals who have lived it. Classwork, 1 unit; activities, 2 units.
(This course is offered as SOC 510 and C J 510. Students may not repeat the course under an alternate prefix.)

C J 515 Extremism as Crime (Units: 3)
Prerequisites: Upper division standing; C J 300, GWAR course; or consent of instructor.

Domestic extremism in the U.S. (militia, hate crimes, terrorism).

C J 520 Construction of Crime and Justice (Units: 3)
Prerequisites: Upper division standing; C J 300, GWAR course; or consent of instructor.

Critical analysis of the images and realities, mythological construction of crime and the criminal justice system in the U.S.

C J 525 Global Restorative Justice and Corrections (Units: 3)
Prerequisites: C J 300, C J 323GW.

Restorative justice practices as alternatives to incarceration, focusing on international practices.

C J 530 Geographies of Social Control and Urban Diversity (Units: 3)
Prerequisites: Upper division standing; C J 300; or consent of instructor.

Geographical distribution of crime, law and justice systems. Informal and formal mechanisms of social control in urban space.

C J 550 School Violence and Discipline (Units: 3)
Prerequisites: Upper division standing; C J 300, C J 330GW or C J 323GW; or consent of instructor.

Examination of the perceptions and realities of contemporary public school violence; the range of school disciplinary efforts for their effects and consequences.

C J 570 Urban Violence (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of the role violence plays in the lives of ghetto subjects; conceptual problems and the socio-political and historical contexts of contemporary manifestations of violence; the world socioeconomic system in shaping the contours of violence in the American Ghetto.

C J 600 Youth Gangs in Community Context (Units: 3)
Prerequisites: Upper division standing; C J 300, C J 330GW or C J 323GW; or consent of instructor.

Examination of youth gangs in America within their social, economic and political contexts from their earliest development to the present day; theories of gang formation and stories of the gang experience.

1489
C J 605 Criminalization of Gender and Sexuality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the criminalization of gender and sexuality utilizing feminist and queer perspectives on criminality; understanding of how laws, policing practices, courtrooms, and institutions regulate gender and sexuality; and examination of effects on labor market opportunities, life chances, and gendered ideas of protection and punishment.

C J 680 Field Course in Criminal Justice (Units: 4)
Prerequisites: Upper division standing; C J 300, GWAR course; or consent of instructor.
Data gathering, organization, and presentation of research to students engaged in field studies in any criminal justice system setting. [CSL may be available]

C J 685 Projects In Teaching Criminal Justice (Units: 1-4)
Prerequisite: C J 300.
Offers undergraduates experience in tutoring other undergraduates in preparing for written examinations in Criminal Justice courses. Tutors assist in organizing legal briefs and analyses in C J 300 and in essay examination preparation in other C J courses. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

C J 699 Independent Study (Units: 1-4)
Prerequisites: C J 300, C J 323GW or C J 330GW; consent of instructor, major adviser, and department chair.
Supervised study of a particular criminal justice issue selected by the student. May be repeated for a total of 4 units. [CSL may be available]
Critical Social Thought (CST)

CST 300 Introduction to Critical Social Thought (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

The tradition and development of critical social thought in interaction with social-economic, political conditions from Kant, Hegel, and Marx in the 19th century to 20th century Marxism, phenomenology, and feminism. (This course is offered as CST 300 and PLSI 386. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Social Justice

CST 320 Racism: Cross-Cultural Analysis (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Cultural history of racism as related to colonialism and imperialism. Racism as on-going intellectual, political movement. Anti-racism and educational-anthropological methods to defeat racism. (This course is offered as ANTH 320 and CST 320. Students may not repeat the course under an alternate prefix.)

CST 585 Globalization and World Cultures (Units: 3)
Prerequisite: ANTH 120 or consent of instructor.

Effects of globalization and multinational corporations on cultures. Examination of contemporary globalization from a combined political-economic and cultural anthropological perspective. (This course is offered as ANTH 585 and CST 585. Students may not repeat the course under an alternate prefix.)

CST 590 Anthropology of Women (Units: 3)
Prerequisite: ENG 114 or equivalent.

Ethnographic, physical, anthropological, and pre-historical materials on women. Theories on origins of the family, social structuring of sexuality, and changing sex and gender in modern societies. (This course is offered as ANTH 590, CST 590, and WGS 595. Students may not repeat the course under an alternate prefix.)
Dance (DANC)

DANC 160 African Haitian Dance I (Unit: 1)
Beginning skills in African-Haitian dance.

DANC 163 Ballet I (Unit: 1)
Ballet I is a beginning classical ballet technique class. May be repeated for a total of 4 units.

DANC 170 Integrated Dance Technique I (Units: 2)
A beginning technique class addressing basic dance skills in modern and jazz dance. May be repeated for a total of 4 units.

DANC 173 Modern Dance I (Unit: 1)
Beginning skills in modern dance.

DANC 176 Modern Jazz Dance I (Unit: 1)
Beginning skills in modern jazz dance.

DANC 207 Dance in Cultural Context (Unit: 1)
Movement vocabulary, performance practice and cultural context of a vernacular dance form. Topic to be specified in Class Schedule. May be repeated for a total of 4 units when topics vary. Activity, 1 unit.

DANC 232 Dance Composition: Choreography I (Units: 3)
Prerequisites: Sophomore standing or above, two technique classes.

Choreography and creative process in dance: improvisation, exploration, form, and content in the formation of solo works. Classwork, 1 unit; activity, 2 units.

DANC 236 Folklore of Dance: African-Haitian (Units: 2)

DANC 263 Ballet II (Units: 2)
Prerequisites: Restricted to Dance majors and minors; DANC 170; or consent of instructor.

An intermediate technique course in classical ballet. May be repeated for a total of 8 units. Priority enrollment for dance majors.

DANC 275 Modern Dance II (Units: 2)
Prerequisites: Restricted to dance majors and minors; DANC 173 or consent of instructor.

A low intermediate class in modern dance technique. May be repeated for a total of 8 units.

DANC 276 Modern Jazz Dance II (Units: 2)
Prerequisites: DANC 176 or consent of instructor; priority enrollment for Dance majors.

An intermediate technique course in modern jazz dance. May be repeated for a total of 8 units.

DANC 300GW Dance Organizational Strategies and Field Topics - GWAR (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of C- or better.

Survey of dance service organizations and professional field topics: grant writing, copyright liabilities, dance documentation, resumes, publicity strategies, fiscal survivorship. [ABC/NC grading only] [CSE may be available]

Course Attributes:
- Graduation Writing Assessment

DANC 304 Issues in Dance Medicine I (Units: 3)
Prerequisite: BIOL 100.

The musculoskeletal system: elements of physiology and nutrition as they apply to dance training. Classwork, 2 units; activity, 1 unit.

DANC 310 Dance Conditioning/Pilates (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Physical conditioning through dance and pilates techniques including strength, flexibility, weight control, nutrition, cardiovascular issues. Alignment, centering, and development of precision in movement. Classwork, 2 units; activity, 1 unit.

DANC 311 Alignment/Pilates Mat (Unit: 1)
Prerequisites: Restricted to dance majors or minors; a college dance class.

An activity course in pilates mat work including core stabilization, mind body centering, and related methods. May be repeated for a total of 8 units.

DANC 312 Alignment Study/Pilates Mat 2-3 (Unit: 1)
Prerequisites: Restricted to dance majors and minors; DANC 311, DANC 304, DANC 310; or consent of instructor.

Movement lab for intermediate/advanced experience in theory and practice of Pilates mat and small equipment; core stabilization, alignment; Pilates principles in relation to dance practice. May be repeated for a total of 4 units.

DANC 316 Dunham Dance Technique (Units: 2)
Prerequisites: DANC 160 and any ballet, jazz, or modern dance class.

Intermediate level dance technique developed by the Katherine Dunham School of Dance covering barre exercises and movement progressions based in African Haitian and modern dance. May be repeated for a total of 8 units.

DANC 340 Creative Process in Dance for Children (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Creative dance for children and adolescents; relationship between the physical and mental processes of learning. May be repeated for a total of 6 units. [CSE may be available]

DANC 350 Dance Aesthetics: Cultural/Historical Perspectives (Units: 3)
Prerequisite: Upper division standing.

Cultural and historical exploration of dance for the viewer, including dance theatre and folk forms and their place in arts and culture.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

DANC 363 Ballet III (Units: 2)
Prerequisites: Restricted to dance majors or minors; DANC 263 or equivalent; or consent of instructor.

Ballet III is an intermediate-advanced classical ballet technique class. May be repeated for a total of 8 units.

DANC 374 Modern Dance III (Units: 2)
Prerequisites: Restricted to dance majors and minors; DANC 275; or consent of instructor.

Modern Dance II is an intermediate/advanced technique class. May be repeated for a total of 8 units.
DANC 376 Modern Jazz Dance III (Units: 2)
Prerequisite: DANC 276 or consent of instructor. Priority enrollment given to dance majors.
Modern Jazz Dance III is an intermediate/advanced jazz technique class. May be repeated for a total of 8 units.

DANC 399 University Dance Theatre (Units: 2)
Prerequisites: Audition; completion of level II or III dance technique classes; concurrent enrollment in two dance technique classes.
Year-long repertory class in which students build and perform faculty and guest artist choreography. May be repeated for a total of 12 units. [CSL may be available]

DANC 400 Workshop in Contemporary Dance (Unit: 1)
Prerequisite: A lower division technique class or consent of instructor.
Study of new forms: cultural/contemporary fusion, contact improvisation, voice and movement. May be repeated for a total of four units.

DANC 402 Workshop in Jazz/Musical Theatre Dance (Unit: 1)
Prerequisites: Any lower division technique class or consent of instructor. Priority enrollment to dance, theatre, and music majors.
Study of forms relating to jazz and music theatre. May be repeated for a total of 4 units.

DANC 404 Production Techniques in Folk and Ethnic Dance (Unit: 1)
Prerequisite: DANC 207 or consent of instructor.
Production techniques in staging ethnic dance for performance. Program materials, props and sets, make-up, sound, staging, and public relations are applied in an ethnic dance production/concert.

DANC 416 Advanced Contemporary Dance Repertory and Skills (Unit: 1)
Prerequisite: DANC 363 or MUS 376 or consent of instructor.
Repertory works and performance techniques for selected advanced dancers; projection, concentration, style. May be repeated once.

DANC 430 Historical Survey of Dance in the Western World (Units: 3)
Prerequisite: Any DANC course or consent of instructor.
Development of dance as a performing art in the western world, and its relationship to social/cultural changes.

Course Attributes:
- UD-C: Arts and/or Humanities

DANC 434 Dance Composition: Choreography II (Units: 3)
Prerequisites: DANC 232; and consent of instructor.
Experience in literal and non-literary choreography including chace, narrative, and historical forms. Work on duets, trios, and larger group studies culminating in a workshop presentation. Classwork, 1 unit; activity, 2 units.

DANC 461 Advanced Choreography and Production (Units: 3)
Prerequisites: DANC 232, DANC 434.
Choreography for the stage in conjunction with production planning and management of New Moves production. Includes publicity, budgeting, rehearsal management, and criticism. May be repeated for a total of 6 units. [CSL may be available]

DANC 463 Performance in Dance Production (Unit: 1)
Prerequisites: Intermediate level of dance experience; audition; and concurrent enrollment in dance technique class.
Performance experience in choreography for dance production to train dancers for the field. Students are admitted to course by audition during the first week of the semester. May be repeated for a total of 4 units.

DANC 474 Modern Dance IV (Units: 2)
Prerequisite: DANC 374 or consent of instructor.
An advanced modern dance class. May be repeated for a total of 8 units.

DANC 490 Dance Theatre Workshop (Units: 1-3)
Prerequisites: Restricted to Dance and Theatre Arts majors and minors; TH A 130, DANC 170, audition.
Creative laboratory for exploration of expressive continuum of dancing, singing and speaking in contemporary multi-disciplinary performance. Activity. May be repeated for a total of 9 units. (Plus-minus letter grade only)
(This course is offered as DANC 490 and TH A 490. Students may not repeat the course under an alternate prefix.)

DANC 545 Traditional Kulintang Music and Dance of the Southern Philippines (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Music and dance of Southern Philippines, emphasis on Kulintang tradition of Mindanao and Sulu Archipelago. Lectures and hands-on workshops on dance movement and music of Kulintang culture. May be repeated for a total of 6 units. (This course is offered as ETHS 545, DANC 545, and MUS 545. Students may not repeat the course under an alternate prefix.)

DANC 560 Supervised Experience in Dance Education (Units: 1-3)
Prerequisites: Restricted to dance majors or minors; completion of dance core and level II technique.
Observation/discussion of curriculum for dance programs in public schools and private settings, pre-school to 12th grade. May be repeated for a total of 6 units. [CSL may be available]

DANC 657 Ethnology of Dance (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Function of dance in pre-literate, pre-technological societies in the context of anthropological literature.
(This course is offered as DANC 657 and ANTH 657. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

DANC 685 Projects in the Teaching of Dance (Units: 1-3)
Prerequisites: Restricted to upper division dance majors or minors; or consent of instructor.
The teaching practicum provides students with an opportunity to serve as an instructional aide, participate in the teaching of a regular instructionally-related Dance class, and learn about educational dance through fieldwork. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.) (CR/NC only)
DANC 699 Independent Study (Units: 1-3)
Prerequisite: Consent of supervising faculty member.

An intensive study of a particular problem under the direction of a faculty member in the department. May be repeated for a total of 9 units. [CSL may be available]
Decision Sciences (DS)

DS 110 Calculus with Business Applications (Units: 3)
Prerequisite: Satisfactory completion of ELM requirement.
Basic quantitative reasoning and employment of fundamental mathematical principles to solve business problems. Elements of calculus, mathematics of finance, and decision-making.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• B4: Math/QR

DS 199 Decision Sciences Make-Up (Unit: 1)
Prerequisite: Consent of instructor.
Additional study to make-up for partial equivalents in Decision Sciences courses. May be repeated for a total of 2 units.

DS 212 Business Statistics I (Units: 3)
Prerequisites: DS 110 or MATH 110 or MATH 226 with grades of C- or better.
Statistical methods essential in solving business problems including probability distributions, estimation and tests of hypotheses, and regression analysis.

DS 312 Data Analysis with Computer Applications (Units: 3)
Prerequisite: DS 212.
Interpretation and presentation of data with business applications, using statistical software packages. Multiple regression, sampling techniques, design and analysis of surveys, analysis of variance, experimental design, and contingency tables. (Plus-minus letter grade only)

DS 408 Computer Simulation (Units: 3)
Prerequisites: DS 212, ISYS 263. ISYS 263 may be satisfied either by successfully passing the ISYS 263 course or waiver exam in basic computer proficiency and information systems.
Development of computer-based simulation modeling skills, focusing on managerial cases. Experience with professional simulation software. Model formulation, execution, and interpretation of results. Classroom, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

DS 411 Decision Modeling for Business (Units: 3)
Prerequisites: DS 110, DS 212, ISYS 263, with grades of C- or better.
Basic concepts of spreadsheet modeling and risk analysis with applications to practical business decision making. Topics include cost and demand modeling, risk analysis, revenue (yield) management, and implementation of decision models using spreadsheets. (This class cannot be taken after DS 601 and is not applicable towards a DS major or minor.)

DS 412 Operations Management (Units: 3)
Prerequisites: Upper division standing; DS 110 or MATH 110, DS 212, ISYS 263 with grades of C- or better.
Management of manufacturing and service operations. Use of computer-based models. Use of computer-based models. Forecasting, capacity planning, linear programming, inventory management, quality management, and project management.

DS 467 Decision Science Internship (Units: 1-3)
Prerequisites: Two of the following: DS 312, DS 408, DS 601, DS 604, DS 624; and completed application form; consent of instructor.
Provides the opportunity to participate in a semester of field experience. Major report required. May not be used as part of DS concentration. (CR/NC grading only)

DS 601 Applied Management Science (Units: 3)
Prerequisites: DS 110, DS 212, ISYS 263. The ISYS 263 prerequisite may be satisfied either by successfully passing the ISYS 263 course or waiver exam in basic computer proficiency and information systems.
Decision making in business emphasizing computer applications. Development of spreadsheet modeling skills and use of professional software. (Plus-minus letter grade only)

DS 604 Applied Business Forecasting (Units: 3)
Prerequisites: DS 212, DS 412, ISYS 263. The ISYS 263 prerequisite may be satisfied either by successfully passing the ISYS 263 course or waiver exam in basic computer proficiency and information systems.
Business forecasting methodology and applications: quantitative and qualitative approaches to short, medium, and long-range forecasting. Practical aspects of forecasting within the business environment. Interrelationships with business planning. (Plus-minus letter grade only)

DS 612 Data Mining with Business Applications (Units: 3)
Prerequisite: DS 312 or DS 604.
Concepts of modeling and understanding of complex datasets based on advanced statistical methods. Discussion of various supervised and unsupervised learning techniques. Instruction in the use of statistical software such as R, SAS, Stata, etc. (Plus-minus letter grade only)

DS 624 Quality Management (Units: 3)
Prerequisites: DS 212, ISYS 263. ISYS 263 may be satisfied by passing the waiver exam in basic computer proficiency and information systems.
Concepts, methods, and current practices ensuring product and service quality. Applications in manufacturing and service industries: quality as a system, customer-driven quality, continuous process improvement, implementation approaches, and ethical issues. (Plus-minus letter grade only)

DS 655 Sustainable Supply Chain Management (Units: 3)
Prerequisite: DS 412.
Design and management of supply chains, cost-effectiveness, environmental and social responsibility. Includes global facility and network design, aggregate planning, transportation, inventory management. (Plus-minus letter grade only)

DS 660GW Communications for Business Analytics - GWAR (Units: 3)
Prerequisites: Restricted to Decision Sciences majors and minors; ENG 214 with a grade of C- or better, DS 412, and at least two DS electives, one of which may be taken concurrently.
Capstone course in Decision Sciences. Communication standards, supply chain management, quality, ethics, and sustainability. Focus on quantitative analysis and communication. Use of computer-based models. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment
DS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive problem analysis under the direction of a decision sciences faculty member. Open to upper division students who have demonstrated the ability to do independent work.

DS 767 Decision Sciences Internship (Units: 1-3)
Prerequisites: One 800-level DS course, completed application form, consent of instructor.

Provides the opportunity to participate in a semester of field experience. Major report required. May not be used on ATC. (CR/NC grading only)

DS 812 Data Mining and Advanced Statistical Methods for Business Analysts (Units: 3)
Prerequisites: Graduate standing; DS 853.

Focus on concepts of modeling and understanding of complex datasets based on advanced statistical methods with various supervised and unsupervised learning techniques. Including an overview of relevant algorithms while emphasizing business applications of these tools and use of statistical software commonly used in practice, such as R, Python, SAS, Stata, etc. (Plus-minus letter grade)

DS 816 Seminar in Business Forecasting (Units: 3)
Prerequisite: BUS 786 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Theory and practice of short, medium, and long range forecasting within business environments. Quantitative and qualitative forecasting methods. Mathematical methods covered include time series models, decomposition models, linear and multiple regression models, and may include ARIMA and data mining. (Plus-minus letter grade only)

DS 851 Computer Simulation and Decision Making (Units: 3)
Prerequisite: BUS 786 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Design and use of computer simulation models in business decision-making. Application to selected problems in various areas of business. (Plus-minus letter grade only)

DS 852 Managerial Decision Making (Units: 3)
Prerequisite: BUS 786. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Model building for business decision making through data driven analysis. Creation of spreadsheet models to identify choices, formalize trade-offs, specify constraints, perform sensitivity analyses, and analyze the impact of uncertainty. Effective spreadsheet design and use. (Plus-minus letter grade only)

DS 853 Applied Multivariate Analysis (Units: 3)
Prerequisite: BUS 776 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Methods of multivariate data analysis applied to business problems. Mathematical methods covered include simple and multiple regression models, logistic regression models, and time series analysis. Theory and practice within business environments. Project using real data. (Plus-minus letter grade only)

DS 854 Total Quality Systems (Units: 3)
Prerequisite: BUS 786 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Concepts, methods, and current practices used to ensure product and service quality; quality as a system, customer-driven quality, continuous process improvement, quality and productivity, implementation approaches, applications, and ethical issues. (Plus-minus letter grade only)

DS 855 Supply Chain Management (Units: 3)
Prerequisite: BUS 786 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Supply chain design, planning, and operation. Concepts of competitive strategy and sustainability; aggregate planning and management of the marketing/operations interface; inventory management and procurement strategy; design of supply chain networks; the role of information technology. (Plus-minus letter grade only)

DS 856 Seminar in Project Management (Units: 3)
Prerequisite: BUS 786 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

The full range of issues faced by project managers. The project life cycle; technical, human, and organizational issues; planning, scheduling, and controlling the timing, resources, and costs of a project; software usage; case studies. (Plus-minus letter grade only)

DS 862 Machine Learning for Business Analysts (Units: 3)
Prerequisites: Graduate standing; DS 812.

Focus on advanced machine learning methods, including supervised and unsupervised learning techniques used to extract valuable information from quantitative and text data. Includes an overview of relevant algorithms while emphasizing business applications of the tools with a focus on commonly-used statistical software, e.g., R and Python, and how to apply the techniques learned in class. (Plus-minus letter grade)

DS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive study of a particular problem under the direction of a business analysis faculty member. Open only to graduate students of demonstrated ability to do independent work. (Plus-minus letter grade only)
Design (DES)

DES 210 Industrial Science (Units: 3)
Nature, properties, and processing of common industrial materials used in the design and production of today’s manufactured products: metallics, plastics, wood, paper, fibers and textiles, ceramics, coatings, and composite materials. (Plus-minus letter grade only)

DES 220 Introduction to Drawing for Designers (Units: 3)
Prerequisite: Restricted to lower division Pre-Industrial Arts (Design & Industry)-BA majors or consent of instructor.
Introduction to drawing for design professions: graphic design, industrial design, digital media, and marketing. Learning to draw as learning to see and understand two- and three-dimensional objects, to give form to design ideas and to communicate these ideas to others. (Plus-minus letter grade only)

DES 222 Introduction to 2D Digital Design (Units: 3)
Prerequisite: Restricted to lower division Pre-Industrial Arts (Design & Industry)-BA majors or consent of instructor.
Digital software and design processes for creating and editing digital images, illustration, documents for print and digital applications. Topics include design vocabulary, conceptualization methods, and text formatting. Students will develop and apply their knowledge through analysis, critique, projects and exercises. (Plus-minus letter grade only)

DES 226 Modern Letterpress Printing: Traditional and Digital Techniques (Units: 3)
Integration of centuries-old methods of letterpress into contemporary design processes. Direct, hands-on work with digital and letterpress proofing press to explore typographic principles, technical methods, lettering, vector illustration, photographic images, and more. Work is project-driven, featuring demos, critique, field trips. May be repeated for a total of 6 units. (Plus-minus letter grade only)

Course Attributes:
- CL: Arts

DES 227 Rethinking Digital Visual Media: History, Technology, and Content (Units: 3)
Digital visual media (computer animation, interactive multimedia, Internet, virtual worlds) viewed through the lenses of history, cultural impact, technology, and production techniques.

DES 256 Design and Society: Contemporary Design Issues and Applications (Units: 3)
Introduction to contemporary design issues, applications, and professions; exploration of design's wide ranging social impacts from visual communication to product design, transportation to city planning, green design to design for social good. (Plus-minus letter grade only)

Course Attributes:
- CL: Arts

DES 300 Design Process (Units: 3)
Prerequisites: Upper division standing; restricted to DES majors; DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.
Creativity and the design process. Individual and group creative problem solving related to graphic communications and product design/development for industry. Laboratory. (Plus-minus letter grade only)

DES 305 Lab Safety Basics (Unit: 1)
Prerequisite: Restricted to DES majors and graduate students in product design/development area.
Introduction to basic power and hand tools in the product design labs to ensure safe operation of tools for the duration of the student's program of study; proper dress, techniques, and protective equipment. May be repeated for a total of 2 units. (CR/NC grading only)

DES 310 Product Design 1 (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 323, DES 356, DES 370, DES 305, DES 320, and DES 321 with grade of C or better; or consent of instructor.
Industrial manufacturing processes related to the development of three dimensional objects for product and interior designers and manufacturing personnel. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 320 Drafting and Sketching for Design (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.
Mechanical and freehand drawing, the reproduction of drawings, and interpretation of graphic projections. Perspective drawing and the common elements of technical illustration. Signs and symbols of design and drafting. Laboratory. Extra fee required.

DES 321 Technical Drawing 1: Introduction to CAD (Units: 3)
Prerequisites: Upper division standing or consent of instructor; DES 323, DES 356, and DES 370 with a grade of C or better; restricted to DES majors.
Fundamentals of two-dimensional geometric image generation techniques to familiarize the student with computer-aided drafting (CAD). Microcomputer CAD hardware and software. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 322 Computer Graphic Imaging (Units: 3)
Prerequisites: Upper division standing; restricted to DES majors; DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.
Comprehensive studies in computer imaging process and production: digital image generation, image conversion processing, image assembly, and image production and reproduction. Selected computer graphic applications and software packages. Extra fee required.

DES 332 Visual Design Literacy (Units: 3)
Prerequisites: Upper division standing; restricted to DES majors; ENG 214 or equivalent with a grade of C or better; or consent of instructor.
Fundamental visual design principles, vocabulary, and applications in design. Topics relevant to 2D and 3D design techniques for both tangible and virtual results. (Plus-minus letter grade only)
DES 324GW Research and Writing for Design - GWAR (Units: 3)
Prerequisites: Restricted to DES majors; ENG 214 or equivalent with a grade of C or better, DES 323, DES 356, and DES 370 with a grade of C or better.

Critical examination of works across the industry sub-disciplines of product design, visual communication and new media. Authoring design concepts and shaping visual presentations. (ABC/NC grading only) [CIS may be available]

Course Attributes:

• Graduation Writing Assessment

DES 325 Graphic Design 1: Introduction (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 322, DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.

Design principles and problem solving for visual communication. Basic digital production tools and techniques for creating print and screen media. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 327 Digital Media 1 (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 322, DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.

Introduction to digital media design focusing on Web design. Conceptual approaches to structuring information and interaction, basic graphic design considerations germane to networked media, and basic production skills. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 330 Industrial Design Outreach (iDo) (Units: 3)
Prerequisites: Upper division standing; restricted to DES major; DES 323, DES 356, and DES 370; or consent of instructor.

Development and delivery of industrial design educational experiences to underserved high school students; providing hands-on interdisciplinary design projects to help foster curiosity, creativity, and build self-confidence. May be repeated for a total of 6 units. (Plus-minus letter grade only) [CIS may be available]

DES 332 Electricity and Electronics (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.


DES 340 Design and Materials (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 323, DES 356, DES 370, and DES 305 with grades of C or better; or consent of instructor.

Properties of industrial materials related to design and manufacture of contemporary products; design process of material properties and traditional technologies relative to the form and function of design objects. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

DES 342 Metals Manufacturing (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 321, DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.

Contemporary metals design and manufacturing processes. Evolution of metal forming practices from traditional to computer-based automated processes. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 344 Plastics for Design (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 323, DES 356, and DES 370 with a grade of C or better; or consent of instructor.

History and development of the plastics industry; basic materials, processes, technology, and application for design. Laboratory. Extra fee required.

DES 356 A History of Design and Technology (Units: 3)
Prerequisites: Upper division standing; restricted to DES majors; ENG 214 or equivalent with a grade of C or better; or consent of instructor.

History of modern design and attendant technology issues. Antecedents of modern design in product design, visual communications, and allied sectors in design. (Plus-minus letter grade only.)

DES 360 Model Development Laboratory (Units: 3)
Prerequisites: Restricted to DES majors; DES 300 or equivalent, DES 323, DES 356, DES 370, and DES 305 with a grade of C or better; or consent of instructor.

Rudiments of model building for the industrial designer. Production of various levels of models including presentation-grade models. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 370 Introduction to Design and Industry (Unit: 1)
Prerequisites: Upper division standing; restricted to DES majors; ENG 214 or equivalent with a grade of C or better; or consent of instructor.

Orientation to major program and concentrations, resources, and extracurricular opportunities. Issues and trends in design, technology, and industry. Selecting a faculty adviser and developing a program of major study. Vocational outlooks and opportunities for graduate study. (CR/NC grading only)

DES 405 How to Develop, Patent, and Market an Idea (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Presentations by experts from the field concerning consumer trends, procedures, pitfalls, advantages, and disadvantages involved in developing, patenting, and marketing new ideas or products.

DES 410 Product Design 2 (Units: 3)
Prerequisites: Restricted to DES majors; DES 300, DES 305, DES 310, DES 321, DES 420; or consent of instructor.

Introduction to the product design and development process: people, process and product. User/market research, product development documentation, concept visual, models and applications. Extra fee required. (Plus-minus letter grade only)

DES 420 Rapid Visualization (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 370 with a grade of C or better.

Illustration of product and graphic design ideas. Three-dimensional sketching and rendering techniques. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)
DES 421 Technical Drawing 2: 3-D Solid Modeling (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 321 or equivalent; or consent of instructor.

Industry standard computer-aided drafting. Use of digital computer to develop working drawings in architectural and industrial design. Practice with industrial input and output device. Laboratory. Extra fee required. (Plus-minus letter grading only)

DES 425 Graphic Design 2: Typography (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 322 and DES 325 with grades of C or better; or consent of instructor.

Typographic design and its use in the problem solving process of layout design. Classic design exercises and experimentation in contemporary applications of type and letterforms as design elements. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 427 Digital Media 2 (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 327 with a grade of C or better; or consent of instructor.

Rich media design strategies and authoring techniques featuring graphical interaction, motion graphics, sound and video content for Web and mobile platforms. Laboratory. (Plus-minus letter grade only)

DES 430 Industrial Controls (Units: 3)
Prerequisites: Restricted to DES majors; DES 332; or consent of instructor.

DC/AC concepts associated with motors, generators, transformers, control devices, and electrical distribution systems as they pertain to industry applications. (Plus-minus letter grade only)

DES 460 Rapid Prototyping and Manufacturing Systems (Units: 3)
Prerequisites: Restricted to DES majors; DES 300, DES 305, DES 310, and DES 321, or equivalent; or consent of instructor.

Design applications for Rapid Prototyping and Computer Integrated Manufacturing (CIM) systems; Manufacturing Resource Planning (MRP), integration methodologies and flexible manufacturing systems. Classwork, 2 units; lab 1 unit. Extra fee required. (Plus-minus letter grade only)

DES 470 Portfolio Development (Unit: 1)
Prerequisite: Restricted to upper division DES majors or consent of instructor.

Development, types, containers of visual materials for showing the products of a student in a handy format, ready for presentation upon completion of school. May be repeated for a total of 2 units. (Plus-minus letter grade only)

DES 475 Topics in Design and Industry (Units: 3)
Prerequisite: Restricted to upper division DES majors or consent of instructor.

Directly supervised special topic design study taking various forms including teaching assistantship, group project, etc. Topic to be specified in Class Schedule. May be repeated when topics vary.

DES 505 Senior Design Project (Units: 3)
Prerequisites: Restricted to senior DES majors; all DES core requirements.

Culminating DES problem-solving experience. Initiating an industrial research and development project; conducting all phases of the design development, from initial research, testing and prototyping, along with feasibility analysis and presentation. (Plus-minus letter grade only) [CSL may be available]

DES 510 Product Design 3 (Units: 3)
Prerequisites: Restricted to upper division, graduate, or second BA standing in DES; DES 300, DES 310, DES 321, DES 410, DES 420; and/or consent of instructor.

Integration of design skills established in introductory courses and designing for human needs. (Plus-minus letter grade only)

DES 521 Technical Drawing 3: Advanced Modeling and Rendering (Units: 3)
Prerequisites: Restricted to DES major; DES 321 and DES 421; or consent of instructor.

Advanced techniques in solid and surface modeling and rendering, using computer aided design software and rendering programs to create accurate and visually compelling 3-D models; rapid prototyping component. (Plus-minus letter grading only)

DES 523 Information Design I: Data Visualization (Units: 3)
Prerequisites: Restricted to upper division DES majors or minors; DES 323, DES 356, DES 370, and DES 300, DES 322, DES 325, DES 327; or consent of instructor.

Introduction to the field of information design focusing on data visualization problems for digital media, print, and environmental communication. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 524 Information Design 2: Exhibit Design (Units: 3)
Prerequisites: Restricted to upper division DES majors or minors; DES 300, DES 305, DES 322, DES 323, DES 356, DES 370, and DES 310 or DES 325 or DES 327 with a grade of C or better; or consent of instructor.

Development of multimedia materials for presentations and exhibits. Methods of communicating diverse subject matter through various media, three dimensional devices, and representative models. Laboratory.

DES 525 Graphic Design 3: Advanced (Units: 3)
Prerequisites: Restricted to DES majors; DES 425 with a grade of C or better; or consent of instructor.

Application of design principles in the solution of complex design projects. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 527 Digital Media 3 (Units: 3)
Prerequisites: Restricted to DES majors; DES 327 and DES 427 with grades of C or better; or consent of instructor

Focused experimentation and production in topics such as motion graphics, digital composting, and interaction design. Laboratory. (Plus-minus letter grade only)
DES 532 Applied Digital Electronics (Units: 3)
Prerequisites: Restricted to DES majors or minors; DES 332 or consent of instructor

Study of basic Transistor-Transistor-Logic (TTL) gates, combinational logic systems, counters, registers, encoders, decoders, Analog/Digital (A/D), D/A, and the tools/techniques used for analysis and application of digital circuits. Laboratory. Extra fee required. (Plus-minus letter grade only)

DES 560 Prototyping Smart Devices (Units: 3)
Prerequisites: Restricted to upper division DES majors or minors; PHYS 101, DES 310, DES 321, DES 360.

Computer programming and electronic hardware design as applicable to product design practice. Use of microcontrollers, sensors, digital I/O devices and various programming environments. Techniques of prototyping interactive electronic "smart" products for demonstration and evaluation. Extra fee required. (Plus-minus letter grade only)

DES 570 Professional Practices for Designers (Units: 3)
Prerequisite: Restricted to upper division DES majors or minors or consent of instructor.

Professional standards and practices of design. Investigation of design and related roles in industry, employment opportunities, professional associations, workplace ethics, interview skills, development of an online portfolio and supporting documentation. (Plus-minus letter grade only)

DES 575 Workshop (Units: 3)
Prerequisites: Restricted to upper division DES majors or minors; completion of DES 323, DES 356, and DES 370.

Supervised study/activities taking various forms including teaching assistantship, independent study, group project, etc. Topic to be specified in Class Schedule. May be repeated when topics vary. Laboratory. Extra fee may be required. [CSL may be available]

DES 576 Practical Experience: Internship (Units: 3)
Prerequisites: Restricted to upper division DES majors; completion of DES 323, DES 356, and DES 370.

In-service experience in a special field. Directed experience in teaching and/or industry. May be repeated for a total of 9 units. (CR/NC grading only) [CSL may be available]

DES 627 Advanced Projects in Visual Communication Design (Units: 3)
Prerequisite: Restricted to upper division DES majors or consent of instructor.

Development of student-driven project in advanced areas of digital and/or print media. Topics may include programming in design, physical computing, mobile media, corporate identity, information design. Extra fee required. May be repeated for a total of 6 units. (Plus-minus letter grade only) [CSL may be available]

DES 628 Design Gallery: Exhibitions and Communications (Units: 3)
Prerequisites: Restricted to upper division DES majors; DES 322, DES 356 with a grade of C or better; or consent of instructor.

Theory and production of exhibitions, symposia, and publications for the Design Gallery, including planning, preparation, annotation, and critique. May be repeated for a total of 6 units. (Plus-minus letter grade only)

DES 700 Seminar in Design Research (Units: 3)
Prerequisite: Graduate Essay Test must be taken within 6 months of starting graduate program.

Seminar in research methodology and introduction to the graduate program. Must be completed in first semester of enrollment. (Plus-minus letter grade only)

DES 701 Seminar: Trends and Issues (Units: 3)
Prerequisite: Graduate standing in Consumer and Family Studies or Design and Industry.

Trends and issues in discipline-specific fields affecting individuals, families, and communities. Review of research; and application of findings to problems. (This course is offered as CFS 700 and DES 701. Students may not repeat the course under an alternate prefix.)

DES 724 Graduate Research Methods and Scholarly Writing for Creative Disciplines (Units: 3)
Prerequisite: DES 700 with a passing grade or consent of instructor.

Overview and practicum of graduate level research methods and scholarly writing forms, such as literature review, methods, abstracts, chapter outlines, in preparation for graduate creative work and thesis projects. Specific methods, techniques, and strategies for students in creative disciplines. (Plus-minus AB/NC)

DES 750 Seminar in Industrial Design Education (Units: 3)
Prerequisite: DES 700 or consent of instructor.

Principles and practices for teaching industrial design curriculum including planning of curriculum, design of content, and creation of learning tools with consideration for experiential learning methods. (Plus-minus letter grade only)

DES 755 Seminar in Design Management (Units: 3)
Prerequisite: DES 700 or consent of instructor.

Students create a production using their project management skills throughout the experience. (Plus-minus letter grade only)

DES 800 Seminar in Design Topics (Units: 3)
Prerequisite: DES 700 or equivalent.

Design theory and practice. Special techniques in individual and group approaches to problem solving. (Plus-minus letter grade only)

DES 805 Seminar in Design Methodology (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Research driven design projects using advanced methodologies related to user centered design, market/consumer research, human factors, product development, etc. Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)

DES 852 Directed Experience in Design and Industry (Units: 3)
Prerequisite: Consent of graduate major adviser, supervising faculty member, and department chair.

Specified activities related to studies in industrial and technology education, design, or industrial technology. May be repeated for a total of 6 units. [CSL may be available]
DES 894 Creative Work Project (Units: 3)
Prerequisites: Consent of instructor and departmental graduate committee; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

DES 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and major adviser and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

DES 899 Independent Study (Units: 3)
Prerequisite: Enrollment by petition approved by the supervising instructor, the major adviser, and the department chair.

Special study of a particular problem in industry or industrial education conducted under the direction of a faculty member. May be repeated. [CSL may be available]
Dietetics and Food Management (DFM)

**DFM 253 Nutrition in Health and Disease (Units: 3)**
Prerequisite: One semester of chemistry, physiology, or consent of instructor. For students in health professions.

Nutrient needs for maintaining positive nutritional status. Diets to fit specific health needs. Primary nutritional care. Use of self-paced learning materials and computer assisted instruction.

**DFM 350 Advanced Nutrition I (Units: 3)**
Prerequisites: Restricted to Dietetics major; BIOL 212, BIOL 213, CHEM 349, MATH 124 with grades of C- or better.

Research in human nutrient requirements and metabolic interrelationships of proteins, carbohydrates, and lipids found in foods. (Plus-minus letter grade only)

**DFM 350GW Foodservice Systems Management - GWAR (Units: 3)**
Prerequisites: Restricted to upper division Dietetics or Family and Consumer Sciences major; ENG 214 or equivalent, DFM 253 or CFS 355, with grades of C- or better.

Organization and management of foodservice systems. Areas within foodservice systems: production and service management, sanitation and safety, cost control, and human resources. Daily business operation procedures. (ABC/NC grading only)

**Course Attributes:**
- Graduation Writing Assessment

**DFM 357 Experimental Food Study (Units: 3)**
Prerequisites: Restricted to graduating senior or a Second Bacc in Dietetics; CHEM 130, CFS 352, MATH 124, with grades of C- or better.

Food components and their interactions. Chemical and physical principles applied to foods. Recipe testing and formulation. Developments of experimental attitudes and techniques applicable to food science. Classwork, 2 units; laboratory, 1 unit. Extra fee required.

**DFM 450 Advanced Nutrition II (Units: 3)**
Prerequisites: Restricted to graduating senior or a Second Bacc in Dietetics; BIOL 212, BIOL 213, CHEM 349, DFM 350, MATH 124, with grades of C- or better.

Research in human nutrient requirements and metabolic interrelationships of vitamins, minerals, water and non-nutritive substances found in foods.

**DFM 451 Community Nutrition and Assessment (Units: 3)**
Prerequisites: Restricted to graduating senior or a Second Bacc in Dietetics; DFM 350 with a grade of C- or better.


**DFM 458 Management of Quantity Food Purchasing and Production (Units: 3)**
Prerequisites: Restricted to Dietetics or Family and Consumer Sciences major; CFS 352 with a grade of C- or better.

Implementation of purchasing, specifications, and procedures related to quantity food production, management, menu planning, standardized recipes, merchandising, cost, and quality control. Classwork, 2 units; laboratory, 1 unit.

**DFM 484 Medical Nutrition Therapy I (Units: 3)**
Prerequisites: Restricted to graduating senior or a Second Bacc in Dietetics; DFM 253, CHEM 349, BIOL 212, BIOL 213, with grades of C- or better.


**DFM 485 Medical Nutrition Therapy II (Units: 3)**
Prerequisites: Restricted to graduating senior or a Second Bacc in Dietetics; BIOL 212, BIOL 213, CHEM 349, DFM 253, DFM 484, DFM 450 (may be taken concurrently), with grades of C- or better.


**DFM 655 Nutrition Education and Communication (Units: 3)**
Prerequisites: Restricted to graduating senior or a Second Bacc in Dietetics; DFM 353GW.

Objectives, methods, resources, and evaluation techniques for educational programs in commercial/community settings in dietetics. Knowledge, attitudes, and skills as a dietetic educator. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

**DFM 751 Seminar in Nutritional Assessment Across the Lifespan (Units: 3)**
Prerequisite: Baccalaureate degree and admission to the dietetics certificate program.

Nutritional assessment of patients and clients in the community. Assessment of children, adults and the older adult. (Plus-minus letter grade, RP)

**DFM 755 Seminar in Human Nutrition and Metabolism (Units: 3)**
Prerequisite: Baccalaureate degree and admission to the dietetics certificate program.

Nutrition and the metabolism of nutrients in varying stages of wellness. Recent research related to energy nutrients, vitamins, minerals, and non-nutritive substances. (Plus-minus letter grade only.)

**DFM 758 Seminar in Foodservice and Nutrition Program Management (Units: 3)**
Prerequisite: Admission to the dietetics certificate program.

Management of quantity foodservice operations and nutrition programs in the community. Financial management, management principles, operations, marketing, menu development, program development and evaluation, and quality improvement. (Plus-minus letter grade, RP)
DFM 785 Seminar in Medical Nutrition Therapy (Units: 3)
Prerequisites: Baccalaureate degree and admission to the dietetics certificate program.
Medical nutrition therapy for patients and clients in acute care settings. Practical aspects of nutritional assessment and care planning. (Plus-minus letter grade, RP)

DFM 881 Internship in Dietetics (Units: 6)
Prerequisites: Baccalaureate degree and admission to the dietetics certificate program.
Field experience in dietetics in private/public for-profit or non-profit organizations which enable acquisition of knowledge and performance competencies required by The American Dietetic Association. May be repeated for a total of 12 units. (CR/NC grading only)
Early Start English (ESE)

ESE 99 Introduction to College Reading and Writing (Unit: 1)
Introduction to reading/writing practices common to the University.
Meets the CSU requirement for Early Start in English. Offered both online and on-campus. Units and grades earned do not count towards graduation requirements. (CR/NC/RP grading only)
Course Attributes:

• Pre-Collegiate

ESE 99SB Introduction to College Reading and Writing (Units: 3)
Introduction to reading/writing practices common to the University.
Meets the CSU requirement for Early Start in English. Units and grades earned do not count towards graduation requirements. (CR/NC/RP grading only)
Course Attributes:

• Pre-Collegiate
Early Start Math (ESM)

ESM 40 Early Start Program in Mathematics (Unit: 1)
Prerequisite: First-time freshman with an ELM score below 50.

Self-paced online Early Start math course. Prepares students for key topics in ELM as well as elementary and intermediate algebra. Does not count toward the baccalaureate degree. (CR/NC/RP grading only) (Note: This course does NOT allow students to "move-up" unless they retake the ELM test. Students who are interested in "moving-up" should enroll in ESM 60 (Algebra I) or ESM 70 (Algebra II) at SF State, or their equivalents at other CSU campuses, whenever possible; neither ESM 60 nor ESM 70 is online.)

Course Attributes:

• Pre-Collegiate

ESM 60 Entry Level Math I (Units: 3)
Prerequisite: First-time freshman requiring Early Start with ELM score of 40 or below.

Equivalent to first-year high school algebra. Fundamental operations on numbers, polynomials, and rational expressions; factoring, linear equations, and inequalities. Units and grades earned do not count toward graduation requirements.

Course Attributes:

• Pre-Collegiate

ESM 70 Entry Level Math II (Units: 3)
Prerequisite: First-time freshman requiring Early Start with ELM score of 42-48.

Equivalent to second-year high school algebra. Exponents, radicals, logarithms, systems of linear equations, complex numbers, quadratic equations. Units and grades earned do not count towards graduation requirements.

Course Attributes:

• Pre-Collegiate
Earth Sciences (ERTH)

ERTH 110 Our Dynamic Earth (Units: 3)
Prerequisite: Not open to students who have completed ERTH 112 [formerly GEOL 104].
Investigating the geologic processes that are continually shaping our planet, emphasizing the connections between humans and nature and the process of scientific discovery. Designed for non-science majors. [Formerly GEOL 100]
Course Attributes:
• B1: Physical Science
• Environmental Sustainability

ERTH 111 Our Dynamic Earth Lab (Unit: 1)
Prerequisite: ERTH 110 [formerly GEOL 100] (may be taken concurrently), not open to students who have completed ERTH 112 [formerly GEOL 104].
Investigating the geologic processes that are continually shaping our planet, emphasizing the connections between humans and nature and the process of scientific discovery. Hands-on activities to explore Earth processes. Extra fee required. [Formerly GEOL 101]
Course Attributes:
• B3: Lab Science

ERTH 112 Our Dynamic Earth Lecture and Lab (Units: 4)
Prerequisite: Not open to students who have completed ERTH 110 [formerly GEOL 100] and/or ERTH 111 [formerly GEOL 101].
Investigating the geologic processes that are continually shaping our planet, emphasizing the connections between humans and nature and the process of scientific discovery. Designed for non-science majors. Classwork, 3 units; laboratory and fieldwork, 1 unit. Extra fee required. [Formerly GEOL 104]
Course Attributes:
• B1: Physical Science
• B3: Lab Science
• Environmental Sustainability

ERTH 115 History of Life (Units: 3)
Origin and early development of life; evolution of life through geologic time; extinction and replacement of organisms. [Formerly GEOL 105]
Course Attributes:
• B2: Life Science
• Environmental Sustainability

ERTH 160 Our Dynamic Weather (Units: 3)
Prerequisite: Not open to students who have completed ERTH 162 [formerly METR 104].
The nature of weather, including winds, storms, clouds, and precipitation. How and why weather changes, emphasizing the process of scientific discovery. Weather map interpretation and weather forecasting. Designed for non-science majors. [Formerly METR 100]
Course Attributes:
• B1: Physical Science
• Global Perspectives

ERTH 161 Our Dynamic Weather Lab (Unit: 1)
Prerequisite: ERTH 160 [formerly METR 100] (may be taken concurrently), not open to students who have completed ERTH 162 [formerly METR 104].
Weather observations and instruments, weather map and satellite image analysis and interpretation, and weather forecasting, emphasizing the process of scientific discovery. Extra fee required. [Formerly METR 101]

ERTH 162 Our Dynamic Weather Lecture and Lab (Units: 3)
Prerequisite: Not open to students who have completed ERTH 160 [formerly METR 100] and/or ERTH 161 [formerly METR 101].
The nature of weather, including winds, storms, clouds, and precipitation. How and why weather changes, emphasizing the process of scientific discovery. Weather map interpretation and weather forecasting. Designed for non-science major. Classwork, 2 units; laboratory, 1 unit. Extra fee required. [Formerly METR 104]
Course Attributes:
• B1: Physical Science
• B3: Lab Science

ERTH 170 Our Dynamic Ocean (Units: 3)
Prerequisite: Not open to students who have completed ERTH 172 [formerly OCN 104].
Investigating components and operating principles of the ocean system, including ocean basin features, currents, nutrient cycling, and climatic influences, emphasizing the process of scientific discovery. Designed for non-science majors. Classwork, 3 units. [Formerly OCN 100]
Course Attributes:
• B1: Physical Science
• Environmental Sustainability

ERTH 171 Our Dynamic Ocean Lab (Unit: 1)
Prerequisite: ERTH 170 [formerly OCN 100] (may be taken concurrently); not open to students who have completed ERTH 172 [formerly OCN 104].
Investigating ocean processes that play a dominant role in regulating our climate and environment. Emphasizes nature human connections and the process of scientific discovery through hands-on activities. Extra fee required. [Formerly OCN 101]
Course Attributes:
• B3: Lab Science

ERTH 172 Our Dynamic Ocean Lecture and Lab (Units: 4)
Prerequisite: Not open to students who have completed ERTH 170 [formerly OCN 100] and/or ERTH 171 [formerly OCN 101].
Investigating components and operating principles of the ocean system, including ocean basin features, currents, nutrient cycling, and climatic influences, emphasizing the process of scientific discovery. Designed for non-science majors. Classwork, 3 units; laboratory and fieldwork, 1 unit. Extra fee required. [Formerly OCN 104]
Course Attributes:
• B1: Physical Science
• B3: Lab Science
• Environmental Sustainability
ERTH 205 Techniques in Earth Sciences (Units: 2)
Prerequisite: An introductory course in one of the earth sciences (geology, meteorology, oceanography) or ERTH 400 [formerly GEOL 401].
Introduction to field and laboratory techniques in the earth sciences, including scientific writing and library research. Laboratory and fieldwork, 2 units. (Plus-Minus letter grading only)

ERTH 210 Physical Geology (Units: 4)
Composition, structure, and evolution of the earth; earth materials; tectonic and hydrologic systems; landform development; relation of geologic systems to the human environment. Classwork, 3 units; laboratory and fieldwork, 1 unit. Extra fee required. Plus-minus letter grade only. [Formerly GEOL 110]
Course Attributes:
- B1: Physical Science
- B3: Lab Science
- Environmental Sustainability

ERTH 230 Environmental Geology (Units: 3)
Human interaction with the geologic environment. Social and political implications, resource and energy exploitation, land use planning, waste disposal, and human modification of nature. Classwork, 2 units; laboratory and fieldwork, 1 unit. Designed for non-science majors. [Formerly GEOL 270]
Course Attributes:
- B1: Physical Science
- B3: Lab Science
- Environmental Sustainability

ERTH 260 Physical Processes in the Atmosphere (Units: 4)
Prerequisites: MATH 199 or equivalent or satisfactory score on calculus pretest.
Observed behaviors of the atmosphere and the processes and principles that explain and predict them. Algebra-based problem solving. Classwork, 3 units; laboratory, 1 unit. Extra fee required. [Formerly METR 201]
Course Attributes:
- B1: Physical Science
- B3: Lab Science
- Environmental Sustainability
- Global Perspectives

ERTH 270 Physical Processes in the Ocean (Units: 3)
Prerequisite: MATH 199 or equivalent.
Observed behaviors of the ocean and the underlying processes and principles that explain and predict them. Algebra-based problem solving. Classwork, 2 units; laboratory, 1 unit.

ERTH 310 The Violent Earth (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The catastrophic geological agents that modify the environment. Significance of processes such as earthquakes and volcanic eruptions in the development of our planet. Concept of time in evaluating the magnitude of these violent events. Designed for non-science majors. [Formerly GEOL 302]
Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability

ERTH 320 Geology of California (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Geology of California, with emphasis on the San Francisco Bay Area. Local field trips and extended excursions to areas of geologic interest. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required. Designed for non-science majors. [Formerly GEOL 356]

ERTH 325 Geology of the National Parks (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Applying geologic principles to natural environments of North America, focusing on geologic history and landscape evolution of the National Parks. Uniqueness of natural regions and questions of preservation. Classwork, 2 units; laboratory and fieldwork, 1 unit. Designed for non-science majors. (Plus-minus letter grade only) [Formerly GEOL 350]
Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability

ERTH 330 California Water (Units: 3)
Prerequisite: Upper division standing or consent of instructor, designed for non-science majors.
Human interaction with the hydrologic environment; science and politics of water issues facing California; hydrologic cycle, floods, droughts, groundwater, contamination; water needs of cities, farms, ecosystems; effects of climate change on water resources. (Plus-minus letter grade only) [Formerly GEOL 370]
Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability

ERTH 335 Global Warming (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Scientific understanding of global warming. Greenhouse gases, records of past climate change, warming of the recent past, human impact on climate, projections of future climate and the impact on society. Critical evaluation of popular media coverage of climate change. [Formerly GEOL 375]
Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability
- Global Perspectives
ERTH 360 California Weather Events (Units: 3)  
Prerequisite: Upper division standing or consent of instructor.  
Investigation of the basic meteorology of normal and abnormal weather events in California. [Formerly METR 356]  
Course Attributes:  
• UD-B: Physical Life Science  
• Environmental Sustainability  
• Global Perspectives  

ERTH 365 Extreme Weather in a Warming World (Units: 3)  
Prerequisite: Upper division standing or consent of instructor.  
Atmosphere and ocean as agents of catastrophic change. Fluctuations in atmospheric and oceanic circulations and their environmental impacts. Implications of human modification of the ocean-atmosphere system. Weather variability as evidenced by recent floods, droughts, and severe weather. Designed for non-science majors. [Formerly METR 302]  
Course Attributes:  
• UD-B: Physical Life Science  
• Environmental Sustainability  
• Global Perspectives  

ERTH 400 Earth Systems I (Units: 3)  
Prerequisites: At least 9 units of coursework in geoscience, earth sciences, chemistry, or physics.  
Exploring the components of Earth’s systems: atmosphere, hydrosphere, lithosphere, biosphere, and anthroposphere, with focus on the physical and biogeochemical processes through which the components interact. Classwork, 2 units; laboratory, 1 unit. [Formerly GEOL 401]  

ERTH 410 Volcanology (Units: 3)  
Prerequisite: ERTH 210 [formerly GEOL 110] or consent of instructor.  
Volcanic processes, landforms, structures, and rocks; origin and differentiation of magma and relation to place boundaries; case studies of volcanic events on earth and other planets; applications to archaeology and other disciplines. Classwork, 2 units; laboratory and fieldwork, 1 unit. Extra fee required. [Formerly GEOL 410]  

ERTH 420 Mineralogy and Petrology I (Units: 4)  
Prerequisites: ERTH 210 [formerly GEOL 110], CHEM 115, or consent of instructor.  
Minerals: physical properties, crystal chemistry, reactions and stability, and identification of common types, including optical mineralogy. Classwork, 2 units; laboratory and fieldwork, 2 units. [Formerly GEOL 420]  

ERTH 425 Geomorphology (Units: 4)  
Prerequisites for ERTH 825: Graduate or senior standing; and all of the prerequisites listed for ERTH 425.  
Prerequisites for ERTH 425: ERTH 210 [formerly GEOL 110], ERTH 505 [formerly GEOL 125] or MATH 226, PHYS 111 and PHYS 112 or PHYS 220 and PHYS 222, or consent of instructor.  
Landscapes, their geologic evolution, and the processes which create and modify them. Classwork, 3 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 450/GEOL 750]  
(ERTH 825/ERTH 425 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

ERTH 430 Fluid Dynamics in Earth Systems (Units: 3)  
Prerequisites: MATH 227 and PHYS 111 or (recommended) PHYS 220, or consent of instructor.  
Introduction to the basic principles of fluid dynamics as applied to the ocean and atmosphere; and related fields in earth sciences, such as surface water flow and groundwater dynamics. Classwork, 2 units; laboratory, 1 unit. [Formerly OCN 320/METR 320]  

ERTH 434 Coastal Processes (Units: 3)  
Prerequisites for ERTH 834: Graduate or senior standing and all of the prerequisites listed for ERTH 434.  
Prerequisites for ERTH 434: MATH 226, PHYS 111 or PHYS 220, or consent of instructor.  
Dynamics of the nearshore ocean and interactions with the coast and beaches. Topics include tides, coastal waves and currents, sediment transport and beaches, inner shelf processes, and estuarine dynamics. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly OCN 410/OCN 710]  
(ERTH 834/ERTH 434 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

ERTH 436 Atmosphere-Ocean Interactions (Units: 3)  
Prerequisite: ERTH 260 [formerly METR 201] and ERTH 465 [formerly METR 403] or ERTH 470 [formerly OCN 420] or ERTH 430 [formerly OCN/METR 320].  
Atmospheric behavior in the marine environment. Fluxes of energy, momentum, and material between the atmosphere and sea surface. Atmospheric/ocean feedbacks. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly METR/OCN 450]  

ERTH 442 Surface Water Hydrology (Units: 4)  
Prerequisites: MATH 226 and ERTH 210 or ERTH 505 are recommended; or consent of instructor.  
Introduction to surface water hydrology; exploration of hydrologic processes; how precipitation and snowmelt become streamflow, evapotranspiration, and groundwater; watershed hydrology, streamflow processes, and water quality. (Plus-minus letter grade only) [Formerly GEOL 473]  
(This course is offered as ERTH 442 or GEOG 342. May not be repeated under alternate prefix.)  

ERTH 444 Hydrogeology (Units: 4)  
Prerequisites for ERTH 744: Graduate or senior standing; ERTH 210 [formerly GEOL 110], ERTH 505 [formerly GEOL 125] or MATH 226, PHYS 111/PHYS 112 or PHYS 220/PHYS 222 or upper division engineering course; or consent of instructor.  
Prerequisites for ERTH 444: ERTH 210 [formerly GEOL 110], ERTH 505 [formerly GEOL 125] or MATH 226, PHYS 111/PHYS 112 or PHYS 220/PHYS 222, or consent of instructor.  
Physical and geologic factors controlling the occurrence and dynamics of groundwater. Chemical parameters and distribution. Aquifer testing and analysis. Classwork, 3 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 475/GEOL 775]  
(ERTH 744/ERTH 444 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
ERTH 446 Quaternary Geology and Soils (Units: 3)
Prerequisites for ERTH 846: Graduate standing; ERTH 210 [formerly GEOL 110]; or consent of instructor.
Prerequisites for ERTH 446: Senior standing; ERTH 210 [formerly GEOL 110]; or consent of instructor.

Pleistocene and Holocene environments, and their geomorphic and stratigraphic record. Emphasis on landform evolution, soil genesis, soil genesis, climatic history, sea level changes, neotectonics, and environmental impact. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 454/GEOL 754]

(ERTH 846/ERTH 446 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 450 Remote Sensing of the Atmosphere and Ocean (Units: 3)
Prerequisites: MATH 227, ERTH 260 [formerly METR 201] or ERTH 270 [formerly OCN 200] or ERTH 460 [formerly METR 410], PHYS 230 recommended, senior or graduate student for graduate level (850).

Physical principles and applications of satellite and radar remote sensing of the atmosphere and ocean. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only) [Formerly METR 415/METR 715.]

(ERTH 850/ERTH 450 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 454 Engineering Geology (Units: 3)
Prerequisite: ERTH 210 [formerly GEOL 110] or an upper division engineering course or consent of instructor.

Mechanical properties of earth materials and application of geologic principles to engineering problems. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 474]

ERTH 456 Use of Computers in the Earth Sciences (Units: 2)
Prerequisite: A college course in one of the earth sciences (geology, meteorology, oceanography) or ERTH 400 [formerly GEOL 401].

Use of computers to access, display, and analyze earth science data. [Formerly METR/OCN 460]

ERTH 460 Atmospheric Thermodynamics and Cloud Physics (Units: 4)
Prerequisites: ERTH 160 [formerly METR 100] or ERTH 250 [formerly METR 201], ERTH 456 [formerly METR 460/OCN 460] (may be taken concurrently), PHYS 220.

Composition, structure, and thermodynamics of the atmosphere; cloud and precipitation formation processes. Classwork, 3 units; laboratory, 1 unit. Extra fee required. [Formerly METR 410]

ERTH 461 Weather Chart Analysis and Discussion (Unit: 1)
Prerequisite for ERTH 861: Graduate standing or consent of instructor.
Prerequisite for ERTH 461: ERTH 260 [formerly METR 201] (may be taken concurrently).

Weather chart analysis techniques; weather briefing and discussion. Laboratory. [Formerly METR 301/METR 801]

(ERTH 861/ERTH 461 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 465 Weather Analysis and Forecasting I (Units: 4)
Prerequisites: ERTH 260 [formerly METR 201], ERTH 461 [formerly METR 301], MATH 227, PHYS 111 or (recommended) PHYS 220.

Weather analysis and forecasting as an application of the principles of atmospheric physics and dynamics. Weather satellite analysis techniques. Operational forecasting. Classwork, 2 units; laboratory, 2 units. (Plus/Minus Letter grade only) [Formerly METR 439GW]

ERTH 470 Physical Oceanography (Units: 4)
Prerequisites for ERTH 870: Graduate or senior standing and all of the prerequisites listed for ERTH 470.
Prerequisites for ERTH 470: ERTH 170 [formerly OCN 100] or ERTH 172 [formerly OCN 104] or ERTH 270 [formerly OCN 200], PHYS 220; or consent of instructor.

The dynamic character of the ocean environment with emphasis on the properties of sea water, surface heat transfer, Coriolis force, surface and deep ocean circulation, deep and shallow wave phenomena, and underwater sound and optics. Designed for both the physical scientist and marine biologist. Classwork, 3 units; laboratory, 1 unit. [Formerly OCN 420/OCN 720]

(ERTH 870/ERTH 470 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 490 Public Weather Forecasting (Units: 1-3)
Prerequisites: ERTH 160 [formerly METR 100] or ERTH 162 [formerly METR 104] or ERTH 260 [formerly METR 201], and declared Earth Sciences major or participant in the Broadcast Meteorology Certificate program.

Weather forecasting tailored for public use. Forecasting and nowcasting in the media. Weather briefing duties of intern forecaster. May be repeated for a total of 3 units. [Formerly METR 698]

ERTH 500 Earth Systems II (Units: 3)
Prerequisite: ERTH 400.

Exploration of how physical and biochemical processes in Earth's systems led to the origin and evolution of the continents, oceans, atmosphere, and life through geologic time. Classwork, 2 units; laboratory and fieldwork, 1 unit.

ERTH 505 Quantitative Methods in Earth Sciences (Units: 3)
Prerequisites: ERTH 400, MATH 199, or sufficient score on calculus pretest.
Quantitative reasoning and techniques, including statistics, applied to problems in earth science. Classwork, 2 units; laboratory and fieldwork, 1 unit. Weekend field trip required. (Plus-minus letter grade only) [Formerly GEOL 125]

ERTH 510 Structural Geology (Units: 4)
Prerequisites: ERTH 500, ERTH 420 [formerly GEOL 420], and any one of the following: MATH 199, satisfactory score on online precalculus test, ERTH 505 [formerly GEOL 125].

Mechanical aspects of rock deformation. Description, classification, and genesis of folds, faults, and other structures of the earth's crust. Evolution of regional structures. Classwork, 2 units; laboratory and fieldwork, 2 units. [Formerly GEOL 430]

ERTH 515 Sedimentology and Stratigraphy (Units: 4)
Prerequisites: ERTH 205, ERTH 420 [formerly GEOL 420], ERTH 500.
Sedimentary particles and processes, depositional environments, principles of stratigraphic correlation, and basin analysis. Classwork, 2 units; laboratory and fieldwork, 2 units. (Plus/minus letter grade only) [Formerly GEOL 460GW]
ERTH 520 Mineralogy and Petrology II (Units: 4)
Prerequisite for ERTH 820: Graduate standing or consent of instructor.
Prerequisite for ERTH 520: ERTH 420 [formerly GEOL 420] or consent of instructor.
Advanced mineralogy and igneous and metamorphic petrology with a focus on physical and chemical processes in the earth. Classwork, 2 units; laboratory and fieldwork, 2 units. Extra fee required. [Formerly GEOL 426/GEOL 726]
(ERTH 820/ERTH 520 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 522 Geochemistry (Units: 4)
Prerequisites: ERTH 420 [formerly GEOL 420], MATH 226 or ERTH 505 [formerly GEOL 125], or consent of instructor.
Chemistry of the earth including cosmochemistry, crystal chemistry, thermodynamics, aqueous geochemistry, stable and radiogenic isotope geochemistry, major and trace element geochemistry, and analytical techniques. Classwork, 3 units; laboratory, 1 unit. [Formerly GEOL 480/GEOL 780]
(ERTH 822/ERTH 522 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 524 Marine Geology (Units: 3)
Prerequisite: ERTH 110 [formerly GEOL 100] or ERTH 210 [formerly GEOL 110] or ERTH 112 [formerly GEOL 104], or consent of instructor.
Intended for majors only. Origin, age, and geological history of the ocean basins; source and distribution of marine deposits; geological evidence concerning continental drift, sea floor spreading, and plate tectonics; current research in marine geology. [Formerly GEOL 467]

ERTH 526 Ore Deposits (Units: 4)
Prerequisite for ERTH 826: Graduate standing; ERTH 420 [formerly GEOL 420]; or consent of instructor.
Prerequisite for ERTH 526: ERTH 420 [formerly GEOL 420] or consent of instructor.
The origin of ore deposits emphasizing the mineralogic, petrologic, and plate tectonic environments of major deposits from around the world; chemical and physical controls on ore transport and deposition; techniques of mineral exploration and mining. Classwork, 3 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 485/GEOL 785]
(ERTH 826/ERTH 526 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 535 Planetary Climate Change (Units: 4)
Prerequisites: At least 9 units of physical sciences coursework.
Interdisciplinary investigation of physical processes, principles, and tools contributing to our understanding of climate and climate change. Classwork, 3 units; laboratory, 1 unit. [Formerly GEOL/METR/OCN 405]

ERTH 544 Groundwater Contamination (Units: 3)
Prerequisites for ERTH 844: Graduate or senior standing; ERTH 744 [formerly GEOL 775].
Prerequisites for ERTH 544: ERTH 444 [formerly GEOL 475] or consent of instructor; CHEM 115 recommended.
Application of hydrogeologic principles to solution of groundwater contamination problems. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 476/GEOL 776]
(ERTH 844/ERTH 544 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 556 Computer Programming with Applications in the Earth Sciences (Units: 3)
Prerequisites: An introductory course in one of the earth sciences (geology, meteorology, oceanography) or ERTH 400 [formerly GEOL 401], ERTH 456 [formerly METR/OCN 460] recommended.
Principles of computer programming, illustrated with applications in the earth sciences. [Formerly METR/OCN 465]

ERTH 558 Consulting Meteorology and Oceanography (Units: 2)
Prerequisites: Senior or graduate standing in meteorology, oceanography, geology, or geography, consent of instructor.
Forensic meteorology and climatology, climatological and meteorological site assessments, site specific operational forecasting, AMS program for professional certification as consulting meteorologist, the meteorologist as expert witness, depositions and court testimony. [Formerly METR 590/METR 790]
(ERTH 858/ERTH 558 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 560 Atmospheric Dynamics I (Units: 4)
Prerequisites: PHYS 220, MATH 228, ERTH 460 [formerly METR 410], or consent of instructor. MATH 245, ERTH 556 [formerly METR 465] recommended.
Basic dynamical equations governing atmospheric motions, particularly on large scales. Classwork, 3 units; laboratory, 1 unit. Extra fee required. [Formerly METR 420]

ERTH 565 Weather Analysis and Forecasting II (Units: 3)
Prerequisites for ERTH 865: Graduate standing and all of the prerequisites listed for ERTH 565.
Prerequisites for ERTH 565: ERTH 430 [formerly OCN 320/METR 320], ERTH 465 [formerly METR 430GW], or consent of instructor.
Quasi-geostrophic theory in the understanding of mid-latitude synoptic systems. Evolution and motion of mid/upper tropospheric waves. Fronts and jet streaks. Mesoscale and severe weather meteorology. Classwork, 2 units; laboratory, 1 unit. [Formerly METR 500/METR 800]
(ERTH 865/ERTH 565 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 600GW Earth's Climate History - GWAR (Units: 3)
Prerequisites: ENG 214 with a grade of C- or better, CHEM 115, ERTH 500 (may be taken concurrently).
Examination of Earth's climate history over the last 50 million years; analysis of different mechanisms of climate forcing including tectonic changes, greenhouse gas forcing on long and short time scales, orbital forcing, and internal climate feedback. Classwork, 2 units; laboratory, 1 unit. (ABC/NC grading only) [Formerly GEOL 458GW]
Course Attributes:

- Graduation Writing Assessment
ERTH 610 Neotectonics (Units: 3)
Prerequisites for ERTH 810: Graduate or senior standing; ERTH 510 (formerly GEOL 430); or consent of instructor.
Prerequisites for ERTH 610: Senior standing; ERTH 510 (formerly GEOL 430); or consent of instructor.

Principles of earthquake geology, plate tectonics, fault mechanics, basic seismology, geodesy, tectonic geomorphology, seismic hazard analysis, and case studies of large historical earthquakes. Classwork, 2 units; laboratory and fieldwork, 1 unit. (Plus-minus letter grade only) [Formerly GEOL 470/GEOL 770]
(ERTH 810/ERTH 610 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 620 Field Methods in Geology (Units: 2)
Prerequisites: ERTH 210 (formerly GEOL 110), ERTH 510 (formerly GEOL 420), ERTH 515 (formerly GEOL 460GW), satisfactory standing in the major, or consent of instructor.

Field methods: plotting features on topographic maps and aerial photographs, use of field instruments, mapping, and preparation of geologic reports. Laboratory and fieldwork. [Formerly GEOL 695]

ERTH 642 Watershed Assessment and Restoration (Units: 4)
Prerequisites: GEOG 101 or ERTH 210, GEOG 603, MATH 199 or sufficient score on calculus pretest.

Assessing and restoring watersheds and streams. Hydrologic and watershed processes; variables influencing runoff and erosion; hillslope and stream restoration techniques. Classwork, 3 units; fieldwork and GIS laboratory, 1 unit. [CSL may be available]
(This course is offered as GEOG 642 and ERTH 642. Students may not repeat the course under an alternate prefix.)

ERTH 643 Biogeomorphology of Sierra Nevada Streams and Meadows (Units: 2)
Prerequisite: GEOG 101 or ERTH 110.

Understanding the complex interactions of hydrologic and biogeomorphic systems on streams and meadows in the northern Sierra Nevada, and learning field methods for assessing stream function as they respond to long-term impacts related to glacial history and short-term human impacts of timber harvest, road construction, and grazing. Laboratory. (This course is offered as GEOG 643 and ERTH 643. Students may not repeat the course under an alternate prefix.)

ERTH 652 Geoscience Partners in K-12 Education (Units: 4)
Prerequisite: Completion of at least one upper division course in your major field of study.

Introduction to geoscience K-12 teaching and learning; examine understanding of geoscience, discuss science education literature, and analyze science lessons and student learning. Classwork, 2 units; fieldwork, 2 units. [Formerly GEOL/OCN/METR 652]

ERTH 660 Atmospheric Dynamics II (Units: 2)
Prerequisites: ERTH 560 (formerly METR 420), MATH 245, PHYS 240 recommended.

Development of the vorticity equation and the quasi-geostrophic approximation to the full dynamical equations governing atmospheric behavior. Classwork, 1 unit; laboratory, 1 unit. [Formerly METR 520]

ERTH 668 Analysis and Prediction of Severe Storms (Units: 3)
Prerequisites: Senior or graduate standing in meteorology, ERTH 465 (formerly METR 430GW), ERTH 660 (formerly METR 520); consent of instructor.

Large and local-scale controls on severe storms. Morphology of severe thunderstorms. Thunderstorm spectrum. Tornado storms. Severe storms forecasting and analysis techniques. [Formerly METR 535/METR 835]
(ERTH 868/ERTH 668 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 690 Earth Sciences Capstone Presentation (Unit: 1)
Prerequisite: Restricted to Earth Sciences seniors (BS/BA), ERTH 695 or ERTH 698 (may be taken concurrently).

Principles and best practices of presenting scientific information orally and by poster. Practice presenting senior project or senior thesis research. Presentation of senior project at a poster session or oral thesis defense open to the public. (Plus-minus letter grade only)

ERTH 693 Cooperative Education Program (Units: 6-12)
Prerequisites: ENG 114, COMM 150, consent of instructor. Intended for Earth Sciences majors.

Objectives are career development, occupational experience, and educational subsidy. Units do not count toward the degree. (CR/NC grading only) [Formerly GEOL 693]

ERTH 694 Cooperative Education in Earth Sciences (Units: 1-3)
Prerequisite: Intended for Earth Sciences majors.

Objectives are career development, occupational experience, and educational subsidy. Units do not count toward degree. [Formerly GEOL 694]

ERTH 695 Senior Project (Units: 1-3)
Prerequisites: Senior standing in Earth Sciences, 3.0 GPA in major course work, and consent of Earth Sciences faculty adviser.

Directed, original research on an Earth Sciences-related problem. [Formerly GEOL 697, METR 697, and OCN 697]

ERTH 697 Undergraduate Research (Units: 2)
Prerequisites: Senior standing, consent of instructor.

Research activities, including literature review, project design, data collection, and analysis. [Formerly GEOL 697]

ERTH 698 Senior Thesis (Units: 2)
Prerequisite: ERTH 697 (formerly GEOL 697) (may be taken concurrently).

Undergraduate research, to include a written report and oral presentation approved by the thesis committee. [Formerly GEOL 698]

ERTH 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor.

Independent study in the laboratory, field, or library under the direction of a faculty member. The student must present a written report of the work accomplished to the faculty. [Formerly GEOL/METR/OCN 699]

ERTH 700 Graduate Seminar in Geosciences (Units: 2)
Prerequisite: Graduate standing.

Introduction to the graduate program; discussion of interdisciplinary geoscience topics; format to include speakers and assigned readings. [Formerly GEOL/METR/OCN 700]
ERTH 701 Research Methods in Geosciences (Units: 3)
Prerequisite: ERTH 700 [formerly GEOL/METR/OCN 700] or consent of instructor.

Application of research methods: problem formulation, literature searches, proposal writing, scientific report writing, and oral presentation. Preparation of proposal for master's thesis. [Formerly GEOL/METR/OCN 701]

ERTH 702 Quantitative Methods in Geosciences (Units: 3)
Prerequisites: Courses in basic statistics, calculus, and computer applications, or consent of instructor.

Quantitative methods and computer techniques necessary for geoscience problem-solving. Classwork, 2 units; laboratory and fieldwork, 1 unit. (Plus-minus letter grade only) [Formerly GEOL/METR/OCN 702]

ERTH 730 Paleoclimate (Units: 2)
Prerequisite: Graduate standing or consent of instructor.

Reading and discussion of primary cutting edge literature on climate science. (Plus-minus letter grading only) [Formerly GEOL 794]

ERTH 735 Science of Anthropogenic Climate Change (Units: 3)
Prerequisite: ERTH 535 [formerly GEOL/METR/OCN 405] or GEOG 313 or consent of instructor.

Examination of the current scientific understanding of anthropogenic climate change. IPCC Report observations of climate change, paleoclimate, climate feedbacks, climate models, and climate projections. [Formerly GEOL 756]

ERTH 741 Electron Microscopy (Units: 4)
Prerequisite: Graduate or senior standing, or consent of instructor.

Preparation of biological and inorganic materials for scanning and transmission electron microscopy, x-ray microanalysis, EBSD, CL, operation of the electron microscope(s), and data interpretation. Classwork, 1 unit; laboratory, 3 units. Extra fee required. (This course is offered as BIOL 741, CHEM 741, and ERTH 741. Students may not repeat the course under an alternate prefix.)

ERTH 744 Hydrogeology (Units: 4)
Prerequisites for ERTH 744: Graduate or senior standing; ERTH 210 [formerly GEOL 110], ERTH 505 [formerly GEOL 125] or MATH 226, PHYS 111/PHYS 112 or PHYS 220/PHYS 222 or upper division engineering course; or consent of instructor.

Prerequisites for ERTH 444: ERTH 210 [formerly GEOL 110], ERTH 505 [formerly GEOL 125] or MATH 226, PHYS 111/PHYS 112 or PHYS 220/PHYS 222, or consent of instructor.

Physical and geologic factors controlling the occurrence and dynamics of groundwater. Chemical parameters and distribution. Aquifer testing and analysis. Classwork, 3 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 475/GEOL 775]

(ERTH 744/ERTH 444 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 750 Our Dynamic Classroom (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.

Teaching and Learning Community. Exploration of innovative pedagogical techniques and integrating laboratory and lecture components for introductory geosciences courses. (Plus-minus letter grade only) [Formerly GEOL/METR/OCN 792]

ERTH 765 Synoptic Meteorology of Mid-latitude Oceans (Units: 3)
Prerequisites: Graduate standing or consent of instructor.

Synoptic scale analysis and discussion of the extratropical systems of the mid-latitude oceans. Organized convective systems in the eastern Pacific and adjacent coastal margins. California weather patterns. [Formerly METR 825]

ERTH 790 Advanced Public Weather Forecasting (Units: 1-3)
Prerequisite: ERTH 490 [formerly METR 698] and/or consent of instructor.

Direction of a forecast office. Students assume lead forecaster responsibilities in administration of the SF State Public Weather Forecast Center. [Formerly METR 798]

ERTH 795 Selected Topics in the Geosciences (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Topic to be specified in Class Schedule. May be repeated for a maximum of 12 units when topics vary. (Plus-minus letter grade only) [Formerly GEOL 795]

ERTH 810 Neotectonics (Units: 3)
Prerequisites for ERTH 810: Graduate or senior standing; ERTH 510 [formerly GEOL 430]; or consent of instructor.

Prerequisites for ERTH 610: Senior standing; ERTH 510 [formerly GEOL 430]; or consent of instructor.

Principles of earthquake geology: plate tectonics, fault mechanics, basic seismology, geodesy, tectonic geomorphology, seismic hazard analysis, and case studies of large historical earthquakes. Classwork, 2 units; laboratory and fieldwork, 1 unit. (Plus-minus letter grade only) [Formerly GEOL 470/GEOL 770]

(ERTH 810/ERTH 610 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 820 Mineralogy and Petrology II (Units: 4)
Prerequisite for ERTH 820: Graduate standing or consent of instructor.

Prerequisite for ERTH 520: ERTH 420 [formerly GEOL 420] or consent of instructor.

Advanced mineralogy and igneous and metamorphic petrology with a focus on physical and chemical processes in the earth. Classwork, 2 units; laboratory and fieldwork, 2 units. Extra fee required. [Formerly GEOL 426/GEOL 726]

(ERTH 820/ERTH 520 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 822 Geochemistry (Units: 4)
Prerequisites: ERTH 420 [formerly GEOL 420], MATH 226 or ERTH 505 [formerly GEOL 125], or consent of instructor.

Chemistry of the earth including cosmochemistry, crystal chemistry, thermodynamics, aqueous geochemistry, stable and radiogenic isotope geochemistry, major and trace element geochemistry, and analytical techniques. Classwork, 3 units; laboratory, 1 unit. [Formerly GEOL 480/GEOL 780]

(ERTH 822/ERTH 522 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
ERTH 825 Geomorphology (Units: 4)
Prerequisites for ERTH 825: Graduate or senior standing; and all of the prerequisites listed for ERTH 425.
Prerequisites for ERTH 425: ERTH 210 [formerly GEOL 110], ERTH 505 [formerly GEOL 125] or MATH 226, PHYS 111 and PHYS 112 or PHYS 220 and PHYS 222, or consent of instructor.
Landscapes, their geologic evolution, and the processes which create and modify them. Classwork, 3 units; laboratory and fieldwork, 1 unit.
[Formerly GEOL 450/GEOL 750]
(ERTH 825/ERTH 425 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 826 Ore Deposits (Units: 4)
Prerequisite for ERTH 826: Graduate standing; ERTH 420 [formerly GEOL 420]; or consent of instructor.
Prerequisite for ERTH 526: ERTH 420 [formerly GEOL 420] or consent of instructor.
The origin of ore deposits emphasizing the mineralogic, petrologic, and plate tectonic environments of major deposits from around the world; chemical and physical controls on ore transport and deposition; techniques of mineral exploration and mining. Classwork, 3 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 485/GEOL 785]
(ERTH 826/ERTH 526 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 834 Coastal Processes (Units: 3)
Prerequisites for ERTH 834: Graduate or senior standing and all of the prerequisites listed for ERTH 434.
Prerequisites for ERTH 434: MATH 226, PHYS 111 or PHYS 220, or consent of instructor.
Dynamics of the nearshore ocean and interactions with the coast and beaches. Topics include tides, coastal waves and currents, sediment transport and beaches, inner shelf processes, and estuarine dynamics. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly OCN 410/OCN 710]
(ERTH 834/ERTH 434 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 844 Groundwater Contamination (Units: 3)
Prerequisites for ERTH 844: Graduate or senior standing; ERTH 744 [formerly GEOL 775].
Prerequisites for ERTH 544: ERTH 444 [formerly GEOL 475] or consent of instructor; CHEM 115 recommended.
Application of hydrogeologic principles to solution of groundwater contamination problems. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 476/GEOL 776]
(ERTH 844/ERTH 544 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 846 Quaternary Geology and Soils (Units: 3)
Prerequisites for ERTH 846: Graduate standing; ERTH 210 [formerly GEOL 110]; or consent of instructor.
Prerequisites for ERTH 446: Senior standing; ERTH 210 [formerly GEOL 110]; or consent of instructor.
Pleistocene and Holocene environments, and their geomorphic and stratigraphic record. Emphasis on landform evolution, soil genesis, soil genesis, climatic history, sea level changes, neotectonics, and environmental impact. Classwork, 2 units; laboratory and fieldwork, 1 unit. [Formerly GEOL 454/GEOL 754]
(ERTH 846/ERTH 446 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 850 Remote Sensing of the Atmosphere and Ocean (Units: 3)
Prerequisites: MATH 227, ERTH 260 [formerly METR 201] or ERTH 270 [formerly OCN 200] or ERTH 460 [formerly METR 410], PHYS 230 recommended, senior or graduate student for graduate level (850).
Physical principles and applications of satellite and radar remote sensing of the atmosphere and ocean. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only) [Formerly METR 415/METR 715].
(ERTH 850/ERTH 450 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 858 Consulting Meteorology and Oceanography (Units: 2)
Prerequisites: Senior or graduate standing in meteorology, oceanography, geology, or geography, consent of instructor.
Forensic meteorology and climatology, climatological and meteorological site assessments, site specific operational forecasting, AMS program for professional certification as consulting meteorologist, the meteorologist as expert witness, depositions and court testimony. [Formerly METR 590/METR 790]
(ERTH 858/ERTH 558 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 861 Weather Chart Analysis and Discussion (Unit: 1)
Prerequisite for ERTH 861: Graduate standing or consent of instructor.
Prerequisite for ERTH 461: ERTH 260 [formerly METR 201] (may be taken concurrently).
Weather chart analysis techniques; weather briefing and discussion. Laboratory. [Formerly METR 301/METR 801]
(ERTH 861/ERTH 461 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ERTH 865 Weather Analysis and Forecasting II (Units: 3)
Prerequisites for ERTH 865: Graduate standing and all of the prerequisites listed for ERTH 565.
Prerequisites for ERTH 565: ERTH 430 [formerly OCN 320/METR 320], ERTH 465 [formerly METR 430GW], or consent of instructor.
Quasi-geostrophic theory in the understanding of mid-latitude synoptic systems. Evolution and motion of mid/upper tropospheric waves. Fronts and jet streaks. Mesoscale and severe weather meteorology. Classwork, 2 units; laboratory, 1 unit. [Formerly METR 500/METR 800]
(ERTH 865/ERTH 565 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
**ERTH 868 Analysis and Prediction of Severe Storms (Units: 3)**
Prerequisites: Senior or graduate standing in meteorology; ERTH 465 [formerly METR 430GW], ERTH 660 [formerly METR 520]; consent of instructor.
Large and local-scale controls on severe storms. Morphology of severe thunderstorms. Thunderstorm spectrum. Tornadic storms. Severe storms forecasting and analysis techniques. [Formerly METR 535/METR 835] (ERTH 868/ERTH 668 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

**ERTH 870 Physical Oceanography (Units: 4)**
Prerequisites for ERTH 870: Graduate or senior standing and all of the prerequisites listed for ERTH 470.
Prerequisites for ERTH 470: ERTH 170 [formerly OCN 100] or ERTH 172 [formerly OCN 104] or ERTH 270 [formerly OCN 200], PHYS 220; or consent of instructor.
The dynamic character of the ocean environment with emphasis on the properties of sea water, surface heat transfer, Coriolis force, surface and deep ocean circulation, deep and shallow wave phenomena, and underwater sound and optics. Designed for both the physical scientist and marine biologist. Classwork, 3 units; laboratory, 1 unit. [Formerly OCN 420/OCN 720]
(ERTH 870/ERTH 470 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

**ERTH 896 Directed Reading in the Geosciences (Units: 3)**
Prerequisite: Graduate status or consent of adviser.
Supervised literature research in a specific area chosen on the basis of individual student need. Readings, tutorial discussion, and research report or creative projects. May be repeated for a total of 6 units. [Formerly GEOL 896]

**ERTH 897 Research Project (Units: 1-3)**
Prerequisites: Graduate standing, ERTH 700 [formerly GEOL 700/METR 700/OCN 700], ERTH 701 [formerly GEOL 701/METR 701/OCN 701].
Thesis research incorporates all aspects of investigative studies from data collection to data analysis. May be repeated for a total of 6 units. [Formerly GEOL 897]

**ERTH 898 Master's Thesis (Units: 3)**
Prerequisites: Graduate standing, ERTH 700 [formerly GEOL 700/METR 700/OCN 700], ERTH 701 [formerly GEOL 701/METR 701/OCN 701], ERTH 702 [formerly GEOL 702/METR 702/OCN 702], consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. [Formerly GEOL/METR/OCN 898]

**ERTH 899 Independent Study (Units: 1-3)**
Prerequisites: Graduate status and consent of adviser.
Independent study in the laboratory or field under the direction of a faculty member. Student must present a detailed written report of the work accomplished to the department. May be repeated for a total of 3 units. [Formerly GEOL 899]
Economics (ECON)

ECON 101 Introduction to Microeconomic Analysis (Units: 3)
Basic analysis of prices and markets; consumer behavior; behavior of the firm; factor markets.
Course Attributes:
  • D1: Social Sciences

ECON 102 Introduction to Macroeconomic Analysis (Units: 3)
Basic economic methodology, analysis, and policy; economic institutions, organizations, and industrial structure; the monetary system; measurement, determination, and stability of national income; monetary, fiscal, and balance of payments problems and policies. [Formerly ECON 100]
Course Attributes:
  • D1: Social Sciences

ECON 301 Intermediate Microeconomic Theory (Units: 3)
Prerequisites: ECON 101, ECON 102, MATH 226 or equivalent.
Behavior of firms and households in the market economy; production of the firm; determination of costs and prices; income distribution; examination of alternative market structures.

ECON 302 Intermediate Macroeconomic Theory (Units: 3)
Prerequisites: ECON 101, ECON 102, MATH 226 or equivalent.
Determinants of important aggregate economic variables: levels of real and nominal output; rates of unemployment, inflation, and economic growth. Causes of changes in these variables and consequences of alternative macroeconomic policies.

ECON 305 Economic Analysis for Non-Majors (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Macro- and microeconomic theories and their applications to pricing for the firm and problems related to unemployment, inflation, and economic growth. Not open to students who have completed ECON 102 and ECON 101.

ECON 306 Economics and the Environment (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
How economic systems impact the natural environment and how the natural environment underlies the economy. Includes neoclassical and ecological economics perspectives. (This course is offered as ENVS 306 and ECON 306. Students may not repeat the course under an alternate prefix.)

ECON 311 Statistical Methods and Interpretation (Units: 3)
Prerequisite: MATH 226 or equivalent.
Statistical methods essential in solving economic and business problems; descriptive statistics, probability theory, estimation, inferences, hypothesis testing, and statistical software applications. Classwork, 2 units; laboratory, 1 unit.

ECON 312 Introduction to Econometrics (Units: 3)
Prerequisites: ECON 301, ECON 311, MATH 226 or equivalent.
Applied regression and correlation analysis of variance, time series analysis, and forecasting, index numbers, experimental design and sampling methods, and computer applications using major economic data sources; interpretation of results. Classwork, 2 units; laboratory, 1 unit.

ECON 400 Economic and Social History of the United States (Units: 3)
Prerequisite: ECON 102 or ECON 305.
Economic and social development of the United States.

ECON 450 Health Economics (Units: 3)
Prerequisites: ECON 101, ECON 102.
Economic analysis of the US health care system. Supply, demand, and price of health care; cost, access, and quality; regulation; health care reform and comparative health systems.

ECON 474 History of Labor in the United States (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Development of the workforce and organized labor in the U.S. Social and economic characteristics of work and the workforce; characteristics of labor organizations at different times. (This course is offered as HIST 474, ECON 474, and LABR 474. Students may not repeat the course under an alternate prefix.)

ECON 500 Money and Banking (Units: 3)
Prerequisite: ECON 302 or equivalent.
The roles of the Federal Reserve System, private commercial banks, and the public in the determination of the money supply. Analysis of the level and structure of interest rates. Methods, objectives, and actual consequences of monetary policy; international monetary problems.

ECON 501 Money and Capital Markets (Units: 3)
Prerequisites: ECON 302, ECON 500 or equivalent.
Savings and investments; financial intermediaries; the flow of funds; the structure of interest rates; debts, real assets, and the level of economic activity.

ECON 505 Public Economics (Units: 3)
Prerequisites for ECON 805: Graduate standing; ECON 301; or consent of instructor.
Prerequisites for ECON 505: ECON 101, ECON 102 or equivalents, ECON 301.
Economic analysis of the public sector and its impact on the allocation of resources and distribution of income. Emphasis on the economics of government spending, taxation, and debt management. (ECON 805/ECON 505 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 510 Labor Economics (Units: 3)
Prerequisite: ECON 101 or consent of instructor.
Analysis of the operation of the labor market. Theories of wages, unemployment, unions and income distribution. (This course is offered as ECON 510 and LABR 510. Students may not repeat the course under an alternate prefix.)

ECON 511 Collective Bargaining (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Collective bargaining, legislation; case studies in labor law. (This course is offered as ECON 511 and LABR 511. Students may not repeat the course under an alternate prefix.)
ECON 512 Economics of Poverty and Discrimination (Units: 3)  
Prerequisites: ECON 301, ECON 311.  
Application of economic theory to problems of poverty and discrimination. Examines the current structure of income distribution, poverty and empirical evidence on discrimination, and surveys current policy.

ECON 515 Economics of Crime and Justice (Units: 3)  
Prerequisite: Upper division standing or consent of instructor.  
Economic theory of choice and rationality applied to the analysis of crime. Examines social policy to minimize losses due to crime and the costs of crime control. Economics of crime generation, law enforcement, prosecution, corrections, and punishment.

ECON 516 Law and Economics (Units: 3)  
Prerequisites: ECON 101, ECON 102 or ECON 305.  

ECON 520 Industrial Organization (Units: 3)  
Prerequisites for ECON 820: Graduate standing; ECON 301; or consent of instructor.  
Prerequisite for ECON 520: ECON 301.  
Determinants/linkages between market structure, firm conduct, and industrial performance; market power, nonlinear pricing, product differentiation, quality and advertising; oligopoly and strategic behavior; firm organization, ownership and control; entry and exit mergers and antitrust.  
(ECON 820/ECON 520 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 535 Urban Economics (Units: 3)  
Prerequisite: Upper division standing or consent of instructor.  
Analysis of the economic forces which determine a city’s income, employment, land use pattern, industrial structure, and public sector. Particular attention to housing, central city-suburban relationships, transportation, local labor market, local public finance, and neighborhood economic development.  
(This course is offered as ECON 535 and USP 535. Students may not repeat the course under an alternate prefix.)

ECON 540 Economics of Gender (Units: 3)  
Prerequisite: ECON 301.  
Economic models to explain household decision-making regarding labor force participation, marriage, fertility, work sharing and resource allocation; discussion of current empirical evidence and policies to alleviate gender bias. Special focus on women and children in developing countries. [Formerly ECON 340]

Course Attributes:  
• Am. Ethnic & Racial Minorities  
• Global Perspectives  
• Social Justice

ECON 550 Environmental Economics (Units: 3)  
Prerequisites for ECON 850: Graduate standing; ECON 301; or consent of instructor.  
Prerequisite for ECON 550: ECON 301 or consent of instructor.  
Economic causes and consequences of environmental problems; role of regulatory instruments in mitigating environmental problems; application of economic tools and non-market valuation techniques to analyze local and international environmental policies.  
(ECON 850/ECON 550 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 560 Economics of Growth (Units: 3)  
Prerequisites: Upper division standing; ECON 301, ECON 302; or consent of instructor.  
Examines basic growth models and applies these models to growth in the US, Europe, and the World.

ECON 601 Applied Microeconomics (Units: 3)  
Prerequisites for ECON 801: ECON 301, ECON 302, ECON 731, ECON 701.  
Prerequisites for ECON 601: ECON 301, ECON 302, ECON 311.  
In-depth coverage of selected topics in applied microeconomics. Review of empirical and experimental findings. Techniques of applied research.  
(ECON 801/ECON 601 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 605 Seminar: History of Economic Thought (Units: 3)  
Prerequisites: ECON 301, ECON 302.  
Development of economic thought. Reports and discussions based on the works of classical, neoclassical, and contemporary economics.

ECON 611 International Trade Theory and Policy (Units: 3)  
Prerequisites for ECON 811: Graduate standing; ECON 301, ECON 302; or consent of instructor.  
Prerequisites for ECON 611: Upper division standing; ECON 301; or consent of instructor.  
Basic models of trade; Ricardian model, Heckscher-Ohlin model, and newer theories as well as policy applications, tariff and non-tariff barriers, the WTO and regional integration such as NAFTA and the EU.  
(ECON 811/ECON 611 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 612 International Finance and Macroeconomics (Units: 3)  
Prerequisites for ECON 812: Graduate standing; ECON 301, ECON 302.  
Prerequisites for ECON 612: Upper division standing; ECON 302; or consent of instructor.  
Theory and institutions involved in exchange rates and exchange rate regimes, open economy macroeconomics, debt crises, and international institutions such as the IMF and EMU.  
(ECON 812/ECON 612 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

Course Attributes:  
• Global Perspectives

ECON 616 Experimental Economics and Game Theory (Units: 3)  
Prerequisites: Upper division standing; ECON 301, MATH 226; or consent of instructor.  
Introduction to the part of the economic theory that explores strategic interactions among economic agents. Game theory is used in the analysis of a number of socio-economic situations.
ECON 620 Economic Development (Units: 3)
Prerequisites: ECON 101, ECON 102, or equivalents.

Comprehensive study of the economic problems, both domestic and international, facing less developed countries. Analysis of the roles of domestic, private, and public sectors as well as international institutions such as the World Bank, the United Nations, and multinational corporations.

ECON 635 Economics of Globalization (Units: 3)
Prerequisites: ECON 101, ECON 102, or consent of instructor.

Economic debate surrounding process of globalization. Economic causes/consequences of market integration: domestic labor markets, international trade and multinationalization production, integration of financial markets. (This course is offered as ECON 635 and IR 635. Students may not repeat the course under an alternate prefix.)

ECON 640 Health Economics Analysis and Research (Units: 3)
Prerequisites for ECON 840: Graduate standing; ECON 701, ECON 312; or equivalent.
Prerequisites for ECON 640: Upper division standing; ECON 301, ECON 311.

Introduction to health economics; why health care is different from other goods; analysis of the US health care market; health in development and health evaluation. (Plus-minus ABC/NC grading only) [CSL may be available]
(ECON 840/ECON 640 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 675 Natural Resource Economics (Units: 3)
Prerequisite: ECON 301 or consent of instructor.

Introduction to the economics of natural resources. Models of optimal depletion of nonrenewable resources and optimal use of renewable resources. Model application to energy, forests, fisheries, water, and climate change. Focus on computation solutions using Excel and Mathematica.

ECON 6900W Senior Seminar: Economic Inquiry and Analysis - GWAR (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better, ECON 301, ECON 302, ECON 312.

Economic analytical methods applied to important economic issues confronting society. Application of theory and methods learned during previous courses. Assessment of ability to employ economic reasoning in discussion, written exercises and reports, and in-class presentations. (ABC/NC grading only)
Course Attributes:

- Graduation Writing Assessment

ECON 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, major adviser, and department chair.

Supervised study of a particular problem selected by the student.

ECON 701 Seminar: Microeconomic Theory (Units: 3)
Prerequisites: ECON 301, ECON 302, ECON 715 (may be taken concurrently).

Behavior of firms and households; determination of prices and resource allocation in a decentralized economy.

ECON 702 Seminar: Macroeconomic Theory (Units: 3)
Prerequisites: Graduate standing, ECON 701, ECON 715, ECON 731, or consent of instructor.

National income and employment determination: income distribution; wages, prices and economic growth; government policy.

ECON 715 Mathematical Economics (Units: 3)
Prerequisites: MATH 226 or equivalent; ECON 301, ECON 302 or equivalent.

Economics presented mathematically. Use of matrix algebra, calculus, difference equations, and differential equations in economic analysis. Classwork, 2 units; laboratory, 1 unit. [Formerly ECON 615]

ECON 731 Econometric Theory (Units: 3)
Prerequisites: ECON 101, ECON 102, ECON 312, or equivalents.

Theories of estimation; illustrations of econometric research. Forecasting with econometric models. Computer applications. Classwork, 2 units; laboratory, 1 unit. [Formerly ECON 630]

ECON 801 Applied Microeconomics (Units: 3)
Prerequisites for ECON 801: ECON 301, ECON 302, ECON 731, ECON 701.
Prerequisites for ECON 601: ECON 301, ECON 302, ECON 311.

In-depth coverage of selected topics in applied microeconomics. Review of empirical and experimental findings. Techniques of applied research. (ECON 801/ECON 601 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 805 Public Economics (Units: 3)
Prerequisites for ECON 805: Graduate standing; ECON 301; or consent of instructor.
Prerequisites for ECON 505: ECON 101, ECON 102 or equivalents, ECON 301.

Economic analysis of the public sector and its impact on the allocation of resources and distribution of income. Emphasis on the economics of government spending, taxation, and debt management. (ECON 805/ECON 505 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 811 International Trade Theory and Policy (Units: 3)
Prerequisites for ECON 811: Graduate standing; ECON 301, ECON 302; or consent of instructor.
Prerequisites for ECON 611: Upper division standing; ECON 301; or consent of instructor.

Basic models of trade; Ricardian model, Heckscher-Ohlin model, and newer theories as well as policy applications, tariff and non-tariff barriers, the WTO and regional integration such as NAFTA and the EU. (ECON 811/ECON 611 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
ECON 812 International Finance and Macroeconomics (Units: 3)
Prerequisites for ECON 812: Graduate standing; ECON 301, ECON 302.
Prerequisites for ECON 612: Upper division standing; ECON 302; or consent of instructor.

Theory and institutions involved in exchange rates and exchange rate regimes, open economy macroeconomics, debt crises, and international institutions such as the IMF and EMU. (ECON 812/ECON 612 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
- Global Perspectives

ECON 820 Industrial Organization (Units: 3)
Prerequisites for ECON 820: Graduate standing; ECON 301; or consent of instructor.
Prerequisite for ECON 520: ECON 301.

Determinants/linkages between market structure, firm conduct, and industrial performance; market power, nonlinear pricing, product differentiation, quality and advertising; oligopoly and strategic behavior; firm organization, ownership and control; entry and exit mergers and antitrust.
(ECON 820/ECON 520 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 825 Applied Time Series Econometrics (Units: 3)
Prerequisites: ECON 715, ECON 731, or equivalents.

Focus on applications of time series econometric modeling with a particular emphasis in the areas of macroeconomic forecasting, financial modeling, and economic issues that require longitudinal analysis. [Formerly ECON 725.]

ECON 830 Advanced Econometric Methods and Applications (Units: 3)
Prerequisite: ECON 731 or consent of instructor.

Advanced theories and applications of cross-sectional and panel data models of Econometrics. [Formerly ECON 730.]

ECON 840 Health Economics Analysis and Research (Units: 3)
Prerequisites for ECON 840: Graduate standing; ECON 701, ECON 312; or equivalent.
Prerequisites for ECON 640: Upper division standing; ECON 301, ECON 311.

Introduction to health economics; why health care is different from other goods; analysis of the US health care market; health in development and health evaluation. (Plus-minus ABC/NC grading only) [CSL may be available]
(ECON 840/ECON 640 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 850 Environmental Economics (Units: 3)
Prerequisites for ECON 850: Graduate standing; ECON 301; or consent of instructor.
Prerequisite for ECON 550: ECON 301 or consent of instructor.

Economic causes and consequences of environmental problems; role of regulatory instruments in mitigating environmental problems; application of economic tools and non-market valuation techniques to analyze local and international environmental policies.
(ECON 850/ECON 550 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ECON 851 Topics in Applied Economics (Units: 3)
Prerequisites: Graduate standing; ECON 701, ECON 830, or consent of instructor.

Topic to be specified in Class Schedule. May be repeated for a total of 6 units as topics vary. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter/NC grading only)

ECON 890 Graduate Seminar in Applied Economics (Units: 3)
Prerequisites: Graduate standing, ECON 701, ECON 702, or consent of instructor. Must be taken concurrently with ECON 825.

Prepares students for the culminating experience as Masters’ students. Students create and develop an applied research topic in conjunction with the Economics faculty.

ECON 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered ECON 898 (or in some cases, course numbered ECON 890 - see program’s graduate advisor for further information). (CR/NC, RP)

ECON 898 Master’s Thesis (Units: 6)
Prerequisites: Consent of chair of candidate’s committee for the Master of Arts; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

An investigation of a topic or problem in economics. The student develops the project, organizes and completes the written study, and defends the findings with the committee. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

ECON 899 Independent Study (Units: 1-3)
Open to graduate students who have demonstrated ability to do independent work. Enrollment by petition to department.
**Education (EDUC)**

**EDUC 200 Introduction to Teaching and Education (Units: 3)**
Introduction to the field of education and to the profession of teaching. (This course is offered as S ED 200 and EDUC 200. Students may not repeat the course under an alternate prefix.)

**Course Attributes:**
- D1: Social Sciences

**EDUC 250 Teaching and Learning Beyond the Classroom (Units: 3)**
Analysis and exploration of how children learn from the local, natural, and built environment. Examining the practice of teaching social studies and science through the use of local historical and educational sites. (Plus-minus letter grade only) (This course is offered as EDUC 250 and E ED 250. Students may not repeat the course under an alternate prefix.)

**Course Attributes:**
- D1: Social Sciences

**EDUC 300 Education and Society (Units: 3)**
Prerequisite: Upper division standing or consent of instructor.
Introduction to education and the role that education and schools play in society. (This course is offered as S ED 300 and EDUC 300. Students may not repeat the course under an alternate prefix.)

**Course Attributes:**
- UD-D: Social Sciences
- Social Justice

**EDUC 333 Dynamic Educators for the 21st Century (Units: 3)**
Prerequisite: Upper division standing or consent of instructor.
Developing a philosophy through critical literacies stances (a way of being, not activities) toward teaching and learning based on social justice and equity. Focus on teaching and learning as multi-dimensional interactive processes. Investigate, articulate theories and practices to develop student inquiry through integrated curriculum research-based projects for grades Kindergarten-8th grade. (This course is offered as EDUC 333 and E ED 333. Students may not repeat the course under an alternate prefix.)

**EDUC 450 Art and Learning (Units: 3)**
Prerequisite: Upper division standing.
Principles and practices of curriculum planning and instruction for teaching art to K-5 children. Discussions of theory and practice coincide with hands-on art making and curriculum development. Classwork, 1 unit; activity, 2 units. Extra fee required. [Formerly ART 450]
(This course is offered as EDUC 450 and E ED 450. Students may not repeat the course under an alternate prefix.)

**Course Attributes:**
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Social Justice

**EDUC 499 Culminating Experience Continuous Enrollment (Unit: 0)**

**EDUC 501 Behavior is Language: Strategies for Managing Disruptive Behavior (Units: 3)**
[Online Course] This course provides a developmental framework for understanding what students are trying to tell you through the "language" of their behavior in schools. The course teaches behavioral techniques and intervention strategies that remediate disruptive behaviors, reduce power struggles while increasing classroom control and reduce your workloads and burnout. This program helps you, as well as students, find creative, effective solutions to behavioral problems. After studying behavioral theory and intervention strategies, you will be presented with various classroom scenarios in which you will be able to practice and hone your skills for interpreting behavior, determining appropriate interventions and effectively debriefing your students. (This course is offered as EDUC 501 and COUN 501. Students may not repeat the course under an alternate prefix.)

**EDUC 502 Advanced Classroom Management in Schools (Units: 2)**
Intended for school educators, counselors, psychologists serving children with behavior problems in class. Cognitive and cognitive-behavioral concept/strategies interventions. Emphasis on students managing/changing their own behavior. (This course is offered as EDUC 502 and COUN 502. Students may not repeat the course under an alternate prefix.)

**EDUC 503 Understanding Aggression in Schools (Units: 3)**
[Online Course] This course is about violence in America, about aggression in our schools, classrooms, streets, homes and elsewhere. The course speaks of the hatred, the fights, the anger, the crimes committed and the victims in our schools and society. This course covers the history of aggression in America and the many forms of aggression, both criminal and otherwise; its costs and motivation; its perpetrators and targets, its likely and unlikely locations; its impact on our schools, the children; and most especially its promising solutions. Topics of interest include violence and the challenge of raising and working with children: aggression in our classrooms; American youth gangs and their influence; past and future sports violence; “hot spot” locations of frequent violence; and the aggression-promoting role of alcohol, temperature, driving, television and other features of modern life. The course will also answer questions such as: Is aggression always bad? How do aggressive thoughts lead to aggressive actions? Is aggression, at least for some people, an addiction? How are the acts of aggression dealt with in other countries, and are there any lessons for America? The goal of this course is to help educators and adults understand a little better how aggression affects our lives and the lives of our children. Hopefully, with greater understanding and more skilled efforts at prevention aggression and violence in American schools will be reduced.

**EDUC 504 Talented and Gifted: Working with High Achievers (Units: 2)**
[Online Course] This course is designed to help teachers achieve a better understanding of the talented and gifted student, methods used in identification, and strategies in instructing these students in an inclusive classroom. The course provides information on the history of the exceptional student in relation to education, current law, and accepted methods for referral, assessment and identification of these students. The major program models and methods of differentiating instruction to meet the rate and level of learning of those students identified will be presented. The course gives you an understanding of ways to meet the affective needs of the gifted and talented student in the regular classroom. Resources for teachers and parents who would like more information about the talented and gifted is provided.
EDUC 505 Learning Disabilities in Schools (Units: 3)
[Online Course] This course provides an introduction to the field of learning disabilities for special education teachers, general classroom teachers, integration teachers and related professionals especially those working in the areas of language, psychology and counseling. The course covers diverse theoretical approaches, lay the foundations for sensitive and appropriate assessment and evaluation of students, provide directions for program planning and implementation, indicate the importance of and the need for a close, positive partnership with parents (or alternative caregivers) and consider ways for ensuring that the home-school axis is effective and meaningful. It will also consider some major trends and unresolved issues in the field of Learning Disabilities.

EDUC 506 Attention Deficit Disorder in Schools (Units: 2)
[Online Course] This course is designed to help teachers achieve a better understanding of Attention Deficit Disorder (ADD) and intervention strategies to facilitate positive student change. The course provides information on the history of the disorder, accepted methods to assess and identify students with the disorder, and various treatment methods that are currently being used to treat the disorder. You will also learn about the referral process when you feel a student needs services beyond what you are capable of or comfortable providing in your classroom environment. Lists of ADD resources for both teachers and parents will be provided.

EDUC 507 Autism & Asperger Disorders in Schools (Units: 2)
[Online Course] This course is designed to help teachers achieve a better understanding of Autism and Asperger’s Disorder, of intervention strategies to enhance communication and learning, and of methods for teaching more conventional behaviors. The course provides information on the characteristics of the disorder, learning styles associated with the disorder, communication weaknesses, and various intervention strategies that have proven to be successful when working with students with Autism Spectrum Disorders. The course helps teachers comprehend why individuals with Autism Spectrum Disorders act the way they do, and what you can do to enhance more appropriate behavior. Resources for educators, related service personnel, and parents who would like more help or information will be included.

EDUC 508 Inclusion: Special Needs in General Classrooms (Units: 2)
[Online Course] This course is designed to help special and general educators gain a better understanding of inclusion, one of the current educational reform movements that advocates for educating students with disabilities in the general classroom. Key concepts related to including students with disabilities in inclusive classrooms, federal legislation and court cases that have contributed to the inclusion movement will be covered. You will learn the federal definition of students who are entitled to special education services, and the legal procedures educators and school systems need to use in identifying and providing required special education services. Also provided are procedures to use in determining whether students with special needs can be educated in the regular classroom and the characteristics of effective inclusion programs.

EDUC 509 Violence in Schools: Identification, Prevention, and Intervention (Units: 2)
[Online Course] This course is designed to give teachers a better understanding of school violence and increase their interventions strategies. A foundational understanding of violence and the motivational purposes behind aggression will be presented. The correlation with and impact of the media, community and family upon violence will be investigated. The course teaches identification and intervention approaches for working with out-of-control behaviors. This course will help you to increase your understanding of violence, the motivations behind the use of violence and specific strategies to minimize the occurrence of violence in a school and community. Information on available national resources for both parents and teachers will be provided.

EDUC 511 Traumatized Child: The Effects of Stress, Trauma, and Violence on Student Learning (Units: 2)
[Online Course] This course is designed to help teachers identify the signs of stress, trauma and/or violence in their students. Specific factors that exist in families and communities where stress and violence are common will be discussed. A focus of this course is to help teachers understand the special learning needs of the student who is experiencing stress, trauma or violence in his/her life and how to meet his/her needs in the regular classroom. Working with parents and community agencies is also emphasized.

EDUC 512 Child Abuse: Working with Abused and Neglected Children (Units: 2)
[Online Course] Teachers will learn how to recognize the signs of physical abuse, emotional abuse, sexual abuse, physical neglect and emotional neglect in students. Specific factors that exist in families who abuse or neglect their children will be discussed. A major emphasis in this course is on helping teachers understand the special needs of the abused or neglected child, and how to meet those needs in the regular classroom. Working with parents and community agencies is also emphasized.

EDUC 513 Drugs and Alcohol in Schools: Understanding Substance Use and Abuse (Units: 2)
[Online Course] This course provides the framework for understanding what students experience through substance usage or the impact of the substance usage around them. A basic historical perspective of substance use along with descriptions of biological, psychological, and social factors that comprise the disease of addiction will be covered.

EDUC 514 Teaching Diversity in the Classroom (Units: 2)
[Online Course] This course will provide teachers with the tools to effectively facilitate a diverse classroom. Teachers will understand and identify differences in approaches to learning and performance, including different learning styles and ways in which students demonstrate learning. An emphasis in this course will be on understanding how students’ learning is influenced by individual experiences, talents, disabilities, gender, language, culture, family and community values. Teachers will be challenged to apply knowledge of the richness of contributions from our diverse society to their teaching field.
EDUC 515 Harrassment, Bullying, and Cyber-Intimidation in Schools (Units: 2)
[Online Course] Harassment, Bullying & Cyber-Intimidation in Schools will discuss definitions and the personal, social, and legal ramifications associated with sexual harassment, bullying, and cyber-intimidation. The course will address what we know about these troubling areas. We will then explore preventative strategies as well as how school staff can address these issues when they occur. A clear understanding of what constitutes harassment and the harmful effects of harassment on people and institutions is essential to providing a safe and inclusive school environment for all. This computer-based instruction course is a self-supporting program that provides instruction, structured practice, and evaluation all on your home or business computer. Information on installation and technical support can be found, and will be covered in detail, in the User Guide section of your computer software.

EDUC 629 Bilingual Education in the U.S.: A History of Struggle, Resistance, and Achievement (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination, exploration and analysis of the history of bilingual education and its impact on educational opportunities for culturally and linguistically diverse students in the U.S. (Plus-minus letter grade only.) (This course is offered as EDUC 639 and E ED 639. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences

EDUC 660 Preparing for the Teaching Profession (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Review of teaching careers in California, including supply and demand, introduction to the California Standards for the Teaching Profession (CSTP), credentialing process and types of credentials in the state, and the process for applying to a credential program at SFSU. CR/NC grading only.

EDUC 681 Teaching Language and Literature with Elementary and Middle School Students (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to children's literature from picture books to chapter books. Topics include history of children's literature, use of children's literature in the preschool to grade 8 classroom, multicultural and multilingual children's literature, and author and genre study. (Plus-minus letter grade only) (This course is offered as EDUC 681 and E ED 681. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities

EDUC 703 School/Community Partnership For Change (Units: 3)
Goals and processes of school/community partnerships designed to meet the contemporary needs of children, youth, and families. Interprofessional approach to role of school/community members as change agents. Priority enrollment given to graduate students in education, public administration, counseling, nursing, social work.

EDUC 750 Curriculum and Instruction in Art (Units: 3)
Prerequisite: Admission to the Single Subject Credential Program in Art.
Principles and practices of curriculum planning and instruction in the visual arts. Objectives, issues, problems; and teaching techniques. Extra fee required. [Formerly ART 650]

EDUC 755 Curriculum and Instruction II (Units: 3)
Prerequisite: EDUC 750 (formerly ART 650), restricted to single subject teaching credential program.
Continuation of EDUC 750. Provides a forum for examining issues and ideas related to contemporary classroom practice in the teaching of visual art. [Formerly ART 655]

EDUC 805 Sexuality Education and Policy (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.
Historical and philosophical underpinnings of sexuality education in the U.S.; major pedagogical theories and practices at elementary, secondary, and post-secondary levels. Education and social policy considerations. (This course is offered as SXS 805 and EDUC 805. Students may not repeat the course under an alternate prefix.)

EDUC 883 Collaborative Planning for Instruction: Lesson Study (Units: 1-3)
This course, using the Japanese Lesson Study Model will help students (classroom teachers) focus on the learning goals for students, and themselves, in achieving the goals derived from data analysis. Planning instructional activities hypothesized to achieve the learning goals for students, collecting data on student learning and the effectiveness of the teaching strategies, and interpreting the data to revise the hypotheses and improve practice.

EDUC 884 Differentiate Instruction (Units: 2)
Differentiated Instruction focuses on teaching and learning that gives students multiple options for taking in information and making sense of ideas. A variety of instructional approaches adapted to individual and diverse students in the secondary education classroom will be presented. Protocols for analyzing student work and other data will be presented, discussed and practiced. Participants in the class will complete required readings, obtain information from relevant websites, view videotapes, complete action research in their own classrooms, collaborate with colleagues regarding successes/problems, and present modified lesson plans to the entire group in written form.

EDUC 998 Doctoral Dissertation in Educational Leadership (Units: 3-9)
Prerequisite: Consent of instructor.
Independent student research leading to the completion of the doctoral dissertation. Open only to students in the joint doctoral program in educational leadership. May be repeated for a total of 15 units.
Educational Administration (EDAD)

EDAD 713 Administrative Processes (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Leadership of faculty groups, problem analysis, problem solution, decision-making, communication in school settings.

Course Attributes:
- Teacher Credential Program Crs

EDAD 714 Practicum: Site Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Competencies needed by a school site administrator. Principles and techniques of planning, organizing, managing, problem-solving, community relations, program and personnel evaluation, accounting, and budgeting at a school site.

Course Attributes:
- Teacher Credential Program Crs

EDAD 723 School Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Various organizational and managerial roles of school administrators; the examination of a wide range of responsibilities. Case analysis of problems.

Course Attributes:
- Teacher Credential Program Crs

EDAD 733 Curricular Leadership for Multicultural Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Dynamics by which curricular and instructional practices are implemented in diverse settings; reviews contemporary curricular and instructional issues; assesses practical dimensions a leader needs to monitor/enhance performance of students and teachers in multicultural environments.

Course Attributes:
- Teacher Credential Program Crs

EDAD 743 Educational Planning, Technology, and Evaluation (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Nature of planning and evaluation for instructional program development in diverse educational settings. Program, staff, and administration roles in evaluation processes; applications of new technologies to instructional program planning, implementation, and evaluation.

Course Attributes:
- Teacher Credential Program Crs

EDAD 753 Human Resource Administration in Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Approaches to recruiting personnel to meet the changing needs of educational systems. Strategic planning for human resource development, recruitment, induction, evaluation, professional development, and incentive systems. Compliance with state and federal employment laws.

Course Attributes:
- Teacher Credential Program Crs

EDAD 763 Law and Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Judicial entanglements in education: how public educational agencies respond procedurally to legal problems; current legal issues in terms of key constitutional principles, legal requirements, and what case law requires or disallows in educational policy and practice. Rights and responsibilities: equal educational opportunity.

Course Attributes:
- Teacher Credential Program Crs

EDAD 774 Change Processes and Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Alternative models of change, how and why change is necessary as an organizational process: underlying conflicts and tasks of leaders in restructuring alternative teaching and learning environments. Initiatives and models used to examine change issues in school settings.

Course Attributes:
- Teacher Credential Program Crs

EDAD 784 Special Education Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Current issues related to planning, management, supervision, and evaluation of special education programs. Role of special education personnel, key problem areas, working with disparate groups to achieve effective programs for children with disabilities. Review of regulations, procedures, and legal issues as they impact the special education administrator’s role.

Course Attributes:
- Teacher Credential Program Crs

EDAD 822 Practicum: Leadership in Supervision and Curriculum Development (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Principles and techniques for developing curriculum and improving teachers in service. Administrative organization, group processes, and communication skills in supervision work. Application and demonstration of supervisory skills and competencies.

EDAD 823 Practicum: Evaluation, Research, and Planning (Units: 3)
Prerequisite: EDAD 743.
Organization of evaluation programs, staffing, interpreting data to public and budgetary considerations. Application and testing in classroom and field assignment situations.
EDAD 824 Practicum: Personnel Management (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Planning, conflict resolution, and selected personnel procedures.
Application and testing the field under the supervision of specialists.

EDAD 850 Professional Development Practicum (Units: 2)
Prerequisite: Admission to Professional Administrative Services Credential program.
Examination of educational leadership; personal values, knowledge base, skills, experiences, and attitudes. Professional development goals, objectives, and strategy for continued professional development.

EDAD 860 Educational Administrative Competence Practicum (Units: 2)
Prerequisite: Completion of planned program study.
Appraisal of students’ professional development and administrative competence by assessing achievement of goals and objectives defined in the induction plan developed in EDAD 850. (CR/NC grading only)

EDAD 891 Internship - Educational Administration I (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Internship for exploration and analysis of the functional aspects of school administration. The internship is the culminating experience for the Preliminary Administrative Services Credential and master’s degree in educational administration and concludes with a comprehensive oral examination.

EDAD 892 Internship - Educational Administration II (Units: 3)
Prerequisites: EDAD 714 or EDAD 891, consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Internship for exploration and analysis of the functional aspects of school administration. The internship is the culminating experience for the Preliminary Administrative Services Credential and master’s degree in educational administration and concludes with a comprehensive oral examination.

Course Attributes:

- Teacher Credential Program Crs

EDAD 899 Independent Study (Units: 1-3)
Prerequisite: Graduate standing or consent of instructor.
An intensive study of a particular problem under the direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open only to regularly enrolled students.
Educational Leadership (EDDL)

EDDL 910 Transformational Leadership and Coalition Building (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Reviews research about educational leadership, emphasizing transformational leadership, creating and implementing a vision; develop skills in identifying, interacting with, and mobilizing key constituents, emphasizing board relations; includes introduction to important leaders in the field.

EDDL 911 Organizational Behavior, Change, and Systemic Reform (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Presents key constructs from organizational theory that are critical to understanding, analyzing, and implementing organizational and systemic reform; discusses key measures of accountability used in California; provides case studies of district and college systemic reform efforts.

EDDL 912 Advanced Educational Leadership Seminar (Units: 3)
Addresses key educational challenges embedded in high-level educational leadership positions through close interaction with regional educational leaders. Participants develop and present dissertation prospectuses to panels of local educational leaders.

EDDL 920 Literacy and English Language Learners (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Reviews recent research on best practices for developing the academic skills of English language learners, K-adult; includes curriculum and instruction issues at the administrative level, supervision of instruction and teacher evaluation, and approaches for implementing best practices.

EDDL 921 Theories of Learning and Student Development in Math and Science (Units: 3)
Prerequisite: Admission to Ed.D. program.
Students analyze theories and promising practices for improving academic and life opportunity outcomes in science, technology, engineering, and mathematics.

EDDL 930 Qualitative Analysis of Race, Class, and Gender in Society and Education (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Prepares research on issues of race, class, gender and disability in education in historical and contemporary contexts; emphasizes evidence-based, qualitative data analysis; introduces qualitative analysis of data, assumptions, designs, collection, analysis, and research ethics.

EDDL 931 Quantitative Analysis of Structural Inequality in Education (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Prepares research on structural inequality in education from contemporary and historical perspectives; emphasizes evidence-based, quantitative analysis of data on equity and achievement gaps in education; addresses quantitative methods, descriptive analysis, measurement, and research ethics.

EDDL 932 Transformational Strategies to Address Inequality in Education and Society (Units: 3)
Prerequisite: Enrollment in Ed.D. Educational Leadership Program.
Research on historical and contemporary responses to inequality in education; includes multicultural education, culture of poverty, single race/sex schools; new trends and strategies affecting equity in education, including immigrants, sexual identity, age, gender, organizations, and special needs learners.

EDDL 940 Policy, Law and the Political Economy of Education (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Public policy processes and legislation related to education; public financing structures; schooling and school law, including fairness and justice, as well as common problems encountered in districts; special needs learner issues (i.e. older adult learners and students with disabilities).

EDDL 941 Accountability and Performance of Educational Organizations (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Addresses strategic planning processes, development of performance and institutional effectiveness measures, including California education accountability structures and introduction to program evaluation, incorporating quantitative and qualitative data.

EDDL 942 Integrated Planning and Budget (Units: 3)
Prerequisite: Enrollment in Ed.D. in Educational Leadership.
Budgeting and financial management in public education; budget as manifestation of mission, goals, application of equity at district level, quantitative budget analysis skills, data presentation, financial management systems, focus on information technology, special needs learner impacts.

EDDL 944 Human Resource Management in Education (Units: 3)
Prerequisite: Enrollment in the Ed. D. program in Educational Leadership.
Overview of human resources management issues in public education organizations, including legal contexts, labor relations, faculty professional development, student services, assessment and evaluation, supervision of instruction and employees and teacher evaluation.

EDDL 945 Communication Techniques & Strategies in Educational Leadership (Units: 3)
Prerequisite: Enrollment in Ed.D. program in Educational Leadership.
Review research in communication styles and techniques with emphasis on cross-cultural communication; training in public communication techniques and analysis and improvement of communication styles; use of technology, communication with public media, and date presentation.

EDDL 952 Field-Based Residency in Educational Leadership (Units: 3)
Prerequisite: Enrollment in the Ed.D. in Educational Leadership program.
Focus on collecting data for dissertation; includes mentorship and leadership seminars with current school leaders. Individual conference and independent study; examine district-level teaching, learning, assessment, management, and policy issues.
EDDL 961 American Education Leadership (Units: 3)
Prerequisite: Admission to Ed.D. program.
To be completed during the first fall semester of the Ed.D. program.
Introduction to doctoral-level reading, writing, research skills, and
research problems in the field of educational leadership. (Plus-minus
letter grade only)

EDDL 962 Analyzing Critical Issues in Education (Units: 3)
Prerequisite: EDDL 961.
To be completed during the first spring semester of the Ed.D. program.
Continuation of the development of doctoral-level reading, writing,
research skills, and research problems in the field of educational
leadership. (Plus-minus letter grade only)

EDDL 963 Seminar: Linking Theory with Practice (Units: 3)
Prerequisite: Admission to Ed.D. program.
To be completed during the first summer session of the Ed.D. program.
Guides student development of a research problem and literature review
appropriate for dissertation study. (Plus-minus letter grade only)

EDDL 964 Research Seminar: Analyzing Critical Issues in Teaching and
Learning (Units: 3)
Prerequisite: Enrollment in Ed.D. Program in Educational Leadership.
Introduction to mixed methods research; critique examples of published
research and investigate qualitative and quantitative problem statements
and methodologies. (To be completed in the fourth semester.)

EDDL 965 Dissertation Research Design (Units: 3)
Development of a research design suitable for the dissertation; to be
completed during the fifth semester.

EDDL 966 Dissertation Data Collection (Units: 3)
Prerequisite: EDDL 965.
Challenges in data collection for the dissertation; collection and analysis
processes. (Plus-minus letter grade only)

EDDL 997 Dissertation Seminar: Early Stage Writing and Data Analysis
(Units: 3)
Prerequisite: Classified standing in Ed.D. in Educational Leadership;
Advancement to candidacy; open to students who are in the third year of
their doctoral program or equivalent.
Support and guidance to allow students to make substantial progress
on the first half of their dissertation writing, data collection, and early
analysis via conferencing, written feedback, and collaborative research &
writing groups. May be repeated for a total of 6 units. (CR/NC only)

EDDL 998 Dissertation (Units: 3)
Prerequisite: Advancement to candidacy.
Independent student research leading to the completion of the doctoral
dissertation; includes dissertation support seminar for sharing and
critique of preliminary research findings. May be repeated for a total of 6
units.

EDDL 999 Independent Study (Units: 1-6)
Prerequisite: Classified standing in Ed.D. in Educational Leadership;
enrollment by petition.
Intensive study of a particular problem. Study is planned, developed, and
completed under the direction of program faculty. Open only to doctoral
students who have demonstrated ability to do independent work. May be
repeated. (CR/NC grading only)
Elementary Education (E ED)

E ED 250 Teaching and Learning Beyond the Classroom (Units: 3)
Analysis and exploration of how children learn from the local, natural, and built environment. Examining the practice of teaching social studies and science through the use of local historical and educational sites. (Plus-minus letter grade only)
(This course is offered as EDUC 250 and E ED 250. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• D1: Social Sciences

E ED 306 Collaborations and Partnership with Families in ECE (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Theory and practical models for understanding and working with diverse children and families in and out of school settings. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 333 Dynamic Educators for the 21st Century (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Developing a philosophy through critical literacies stances (a way of being, not activities) toward teaching and learning based on social justice and equity. Focus on teaching and learning as multi-dimensional interactive processes. Investigate, articulate theories and practices to develop students’ inquiry through integrated curriculum research-based projects for grades Kindergarten-8th grade.
(This course is offered as EDUC 333 and E ED 333. Students may not repeat the course under an alternate prefix.)

E ED 450 Art and Learning (Units: 3)
Prerequisite: Upper division standing.
Principles and practices of curriculum planning and instruction for teaching art to K-5 children. Discussions of theory and practice coincide with hands-on art making and curriculum development. Classwork, 1 unit; activity, 2 units. Extra fee required. [Formerly ART 450]
(This course is offered as EDUC 450 and E ED 450. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Social Justice

E ED 600 Advanced Issues in Child Development and Learning (Units: 3)
Prerequisite: Upper division standing.
Child development from infancy to school age. Social, emotional, cognitive, and physical development related to practical implications for programs. Developmental learning sequences in relation to curriculum and teaching styles. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 602 Advanced Curriculum Study in ECE (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Advanced integrated curricular development for young children in culturally and linguistically responsive early childhood setting. Introducing diverse early childhood curriculum and discussing DAP teaching and learning materials. Theory, practice, and policy related to creating and implementing integrated curriculum for high-quality ECE programs. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

E ED 603 Promoting Young Children’s Social and Emotional Development (Units: 3)
Prerequisite: PSY 330.
Theories and educational programs focusing on children's social and emotional development in culturally responsive early childhood settings. Attachment relationships, prosocial behavior, self-esteem, identity formation, friendships, guidance, and classroom management. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses. (Plus-minus letter grade only)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

E ED 604 Advanced Issues in Collaboration with Families and Communities in ECE (Units: 3)
Prerequisite: Upper division standing.
Understanding and overcoming obstacles to effective communication between educators and parents through conferences, home visits, participation on boards and committees, and problem-solving experiences. The rationale for parent involvement. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

E ED 605 Supervised Student Teaching in Observation and Evaluation in ECE (Units: 3)
Prerequisite: E ED 600 or E ED 610 (may be taken concurrently).
Supervised field experience in an infant, preschool, or school-age daycare program. Techniques of observation and other evaluations will be practiced and used to develop individualized learning experiences. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.
E ED 607 Leadership and Administration in ECE (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Ingredients necessary for a functioning staff in child development programs. Dynamics of an interdisciplinary early childhood team: administrators, teachers, parents, and support personnel. Development of roles and communication skills. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 608 Supervised Fieldwork: Preschool Curriculum Development (Units: 3)
Prerequisites: E ED 602 and E ED 610 (may be taken concurrently).
Field experience in an infant, toddler, preschool setting. Implementation of integrated curriculum. There is a requirement of 9 hours per week of classroom observation/participation in an approved licensed children facility.

E ED 610 Classroom Assessment and Evaluation for Young Children (Units: 3)
Prerequisites: CFS 320, PSY 330, and consent of instructor.
Observation and assessment of children's behavior and development in diverse early childhood settings and communities. Informal observational techniques, role of assessment in curriculum planning. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses. (Plus-minus letter grade only)

E ED 611 Advanced Issues in Infant-Toddler Education and Care (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Thorough and practical examination of developmental theory from 0-3 years. Practical applications to planning group programs in a variety of settings. Role of relationships as seen in many contexts. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 613 Integrated Arts Curricula in ECE (Units: 3)
Prerequisite: Upper division standing.
Exposure to modes for creative self-expression available to young children. Theories of creativity applied to developing teaching techniques. Visual arts, music and movement, and how to set up and teach in a learning center for creative arts. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice

E ED 614 Science, Math, and Technology Curricular in ECE (Units: 3)
Prerequisite: Upper division standing.
Development of problem solving abilities related to mathematics and science for preschool-age children. Materials and techniques for teaching using an inquiry approach while incorporating everyday experiences. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- E1: Lifelong Learning Develop
- Environmental Sustainability
- Social Justice

E ED 615 Environmental Education in ECE (Units: 3)
Prerequisite: Upper division standing.
Helping teachers of young children to explore their sense of wonder and connection with the out-of-doors. Finding nature in the city and expanding outdoor experiences. Field trips to study sites throughout the Bay area. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability

E ED 616 Language and Literacy in Multilingual ECE Settings (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Children's language learning in culturally and linguistically diverse early childhood settings. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

E ED 619 Children's Play: Theory and Practice (Units: 3)
Prerequisite: Upper division standing.
The role of play in the development of young children. The educator’s role in providing an environment which is physically safe, intellectually challenging, and emotionally nurturing, where young children have maximum opportunity to learn through play. Designing environments and programs that recognize the importance of play. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.
E ED 639 Bilingual Education in the U.S.: A History of Struggle, Resistance, and Achievement (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination, exploration and analysis of the history of bilingual education and its impact on educational opportunities for culturally and linguistically diverse students in the U.S. (Plus-minus letter grade only.) (This course is offered as EDUC 639 and E ED 639. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences

E ED 640 Gear Up Tutors in Schools (Units: 3)
Prerequisite: Must be accepted in the GEAR UP program.
Explore and identify best educational practices to prepare middle school students in San Francisco for college level studies and to gain access to higher education. May be repeated for 18 units. (CR/NC grading only)

E ED 642 Integrating Content Knowledge & Teaching Practices toward a Multiple Subj Cred.: Elem. School (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Integrating content knowledge and teaching practices on issues related to teacher preparation; content integration, test analysis, focused practice; state adopted academic content standards in the teaching profession. May be repeated for a total of 6 units, but only three units may count toward the minor in elementary education.

E ED 645 Directed Experiences with Children (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Individually guided observation and participation experiences with children in elementary school. Registration by recommendation of adviser and consent of instructor. May be repeated for a total of 5 units. [CSL may be available]

E ED 655 Hands on Undergraduate Science Education Experience (Units: 3)
Prerequisite: Upper division standing.
Application of knowledge of core science concepts to the teaching of elementary school children; design, implement, and analyze the effectiveness of inquiry-based science learning activities to explore how children learn science.

E ED 668 Multicultural Education and Social Justice for Young Children (Units: 3)
Prerequisite: Upper division standing.
Introduces approaches for integrating education about diversity in early childhood programs. Helping young children develop positive self concept and attitudes about gender, race, ethnicity, and disabilities. Critical thinking skills for challenging bias and thriving in multicultural society. There is a requirement of 30 hours of classroom observation/participation per semester when a student is enrolled in one or more undergraduate ECE courses.

E ED 681 Teaching Language and Literature with Elementary and Middle School Students (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to children’s literature from picture books to chapter books. Topics include history of children’s literature, use of children’s literature in the preschool to grade 8 classroom, multicultural and multilingual children’s literature, and author and genre study. (Plus-minus letter grade only) (This course is offered as EDUC 681 and E ED 681. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

E ED 687 Seminar: Field Experience (Units: 1-3)
Prerequisite: Enrollment limited to Multiple Subject Credential candidates.
Understanding school and classroom culture, roles of the teacher in contemporary urban school settings. Instruction, teaching, evaluation, professional responsibilities and opportunities, and community relationships. Application of theory to practice. May be repeated for a total of 6 units. (CR/NC grading only)

E ED 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
An intensive study of a particular problem under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only.

E ED 700 Social, Emotional, and Physical Development in Early Childhood Education Sociocultural Contexts (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theory and research on children’s social, emotional, and physical development across sociocultural contexts. Relationship to children’s learning, implications for early childhood education, and the design of quality programs for young children (0-8 years). (Plus-minus letter grade only)

E ED 701 Social, Cultural, and Historical Foundations of Education (Units: 3)
Prerequisites: Upper division standing and consent of instructor. Intended for Multiple and Single Subject Credential candidates.
Examines, from a critical perspective, historical, social, and cultural foundations for theoretical frameworks and pedagogical practices for the classroom.
Course Attributes:
• Teacher Credential Program Crs

E ED 703 Family Literacy Studies of the Elementary Age Child (Units: 3)
Prerequisite: Admission to MA in Elementary Education Program.
Research and theory of cross-cultural family literacy practices. Patterns of parent engagement in elementary age students’ home and school literacy practices. (Plus-minus letter grade only)
E ED 704 Children’s Play Development in School and Community (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Role of young children’s play in cross-cultural educational and community settings. Innovative practices and curriculum for promoting positive and meaningful play experiences in and out of school. (Plus-minus letter grade only)

E ED 705 Exploring Child and Adolescent Literature (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential program.

Exposure to a wide-range of child and adolescent literature. Examination of teaching methods and literature for use in the TK, elementary and secondary classroom. Author study and bookmaking.

E ED 707 Cognitive Development in Early Childhood Education Sociocultural Contexts (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Theory and research on children’s (0-8 years) intellectual development, as framed by sociocultural contexts. Application to instruction, curriculum development, and design of environments for young children. (Plus-minus letter grade only)

E ED 708 First and Second Language Development in Early Childhood Education (Units: 3)
Prerequisite: Consent of instructor.

Theory and research on children’s (0-8 years) first and second language development in multicultural settings. Role of culture and socialization; practical applications for children’s oral and written language learning.

E ED 709 Early Childhood Education Curriculum in Pluralistic Society (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Analyze and interpret works of various scholars that have influenced ECE curricula; discuss who decides the context of knowledge, instructional methods, as well as the evaluation system in contemporary ECE practices. (Plus-minus letter grade only)

E ED 710 Children’s Early Literacy Development in Early Childhood Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Theory, practice, and policy on children’s (0-8 years) acquisition of written language in multicultural setting. Emphasis on role of culture and socialization, and practical applications of successful classroom and childcare instruction.

E ED 711 Chinese Heritage Language for the Bilingual Teacher Candidates (Units: 3)
Prerequisite: Admission to Multiple Subject Credential Program.

To continue the advancement of the Chinese proficiency for the MS Bilingual Teacher candidates in speaking, reading, writing, listening, and culture development. Focus on pedagogical strategies to teach bilingual Chinese and second language learners in elementary classroom settings; and address the vast linguistic and cultural diversity of Chinese in the USA. (Plus-minus AB/NC)

E ED 712 Teaching Reading and Language Arts, Chinese Bilingual (Units: 3)
Prerequisite: Enrolled in the Multiple Subject Credential Program, Bilingual Authorization Chinese.

Prepares elementary school teacher candidates with theories and research findings to teach reading and language arts in Chinese. Systematic and explicit instruction in teaching a comprehensive Chinese literacy includes oral language, reading strategies, vocabulary and writing development. (Plus-minus letter grade only)

E ED 713 Spanish Heritage Language for the Bilingual Teacher: I (Units: 3)
Prerequisite: Enrolled in the Multiple Subject Credential Program, Bilingual Authorization.

Development of Spanish proficiency for the bilingual teacher in listening, speaking, reading and writing, and using culturally responsive instruction. Pedagogical strategies, and preparation for becoming reflective practitioners. Addresses linguistic/cultural diversity of Latinos/as in the USA.

Course Attributes:
• Teacher Credential Program Crs

E ED 714 Spanish Heritage Language for the Bilingual Teacher: II (Units: 3)
Prerequisites: Enrolled in the Multiple Subject Credential Program, Bilingual Authorization (Spanish); E ED 713.

Demonstration of competency in applied linguistics, pedagogical theories and practices as these are designed, planned and implemented in Spanish bilingual classroom settings.

E ED 715 Families in Early Childhood Settings and Communities (Units: 3)
Prerequisite: E ED 717 or consent of instructor.

Research, policy, and practice related to young children and families in diverse early childhood settings and communities. Family structures, cultural perspectives, family-school relationships, family literacy, and outreach programs. (Plus-minus letter grade only)

E ED 717 Narrative Inquiry and Memoir in Early Childhood Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Focus on autobiographical accounts (memoir) and stories (narrative inquiry) for understanding teaching and learning. Practical applications to teaching and use of narrative inquiry for qualitative research.

E ED 720 Research and Practice in Language and Literacy Education (Units: 3)
Prerequisite: ISED 797.

Introduction to leading ideas in quantitative and qualitative methods in educational research that focus on language and literacy; identification of research questions, review of literature, research problems, research plans, design issues, data analysis, instrument construction, data analysis, and reporting. (Plus-minus letter grading only)
E ED 721 International Education in Early Childhood and Elementary Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Interdisciplinary course on research, policy, and practice relating to international education in early childhood and elementary school. Topics include international school structures, school demographics, philosophies of schooling, curriculum, immigration, gender, and student achievement. (Plus-minus letter grade only)

E ED 723 Inservice Leadership in Reading (Units: 3)
Prerequisite: Consent of adviser and course instructor.

Development of professional growth in reading; determining staff needs; designing programs of in-service education; problems of consultation and program development, aiding in development of curriculum and improvement of instruction. (Plus-minus letter grade only.)

E ED 725 Classroom Issues in Language, Literacy, and Culture (Units: 3)
Prerequisite: Consent of instructor.

Research and theory on language and literacy development in linguistically and culturally diverse communities and classrooms; first and second language acquisition; emergent literacy; implications of research for culturally responsive teaching and classroom organization. (Plus-minus letter grade only)

E ED 726 Engaging Young Writers in Classroom Settings, TK-12 (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential Program.

Introduction to theories and practices of teaching writing in elementary and secondary level classrooms. Writing research, methodology, student assessment, and literature connections.

E ED 737 Teaching Social Studies, Social Justice, and Literacy: Grades 3-6 (Units: 3)
Prerequisites: E ED 783, E ED 782, E ED 784, E ED 749. Must be taken concurrently with one or two of the following courses: E ED 777, E ED 747, E ED 757, E ED 748, E ED 758.

Frameworks and methods for implementing integrated curriculum in elementary school, focusing on social studies content and social justice perspective. Instruction in use of effective expository literacy strategies for students in grades 3-6. Field practicum required. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

E ED 738 Language and Literacy Development, TK-3 (Units: 3)
Prerequisite: Admission to Multiple Subject Credential Program.

Methods and materials in teaching reading/language arts to linguistically and culturally diverse students from preschool to grade 3. First and second language acquisition theories and their relationship to teaching literacy. (Plus-minus letter grade only)

E ED 746 Teaching Practicum Phase I (Units: 1-3)
Prerequisites: Acceptance to MSC program; must be taken concurrently with E ED 756, E ED 701, E ED 749, E ED 784 (or E ED 777).

Developmental field experience in a public elementary school under guidance of a resident teacher. Teaching is planned and practiced at the beginning level based on California State standards. May be repeated for a total of 4 units. (CR/NC grading only)
Course Attributes:
• Teacher Credential Program Crs

E ED 747 Teaching Practicum Phase II (Units: 1-3)
Prerequisites: E ED 746, E ED 756, E ED 701, E ED 749, E ED 784 (or E ED 777). Must be taken concurrently with E ED 757, E ED 782, E ED 777 (or E ED 784).

Developmental field experience in a public elementary school under the supervision of a resident teacher. Teaching planned and practiced at the developmental level, based on California State standards. May be repeated for a total of 3 units. (CR/NC grading only)
Course Attributes:
• Teacher Credential Program Crs

E ED 748 Teaching Practicum Phase III (Units: 1-7)

Final phase of student teaching conducted in a public elementary school under supervision of a resident teacher. Planned and practiced at the competency level. Assessment based on California state standards. May be repeated for a total of 12 units. (CR/NC grading only)
Course Attributes:
• Teacher Credential Program Crs

E ED 749 Second Language Acquisition in the Elementary School (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

First and second language acquisition theories and their relationship to second language learning; psychological, social, and linguistic aspects of second language acquisition of children; socio-political factors related to language issues. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

E ED 756 Teaching Practicum Seminar Phase I (Units: 1-3)
Prerequisites: Admission to multiple subject program; first semester enrollment. Must be taken concurrently with E ED 746, E ED 701, E ED 749, E ED 784 (or E ED 777).

Supports skill in planning, teaching, and assessing all students across elementary school curriculum. Instruction in classroom management. Addresses California K-12 content and English language standards. May be repeated for a total of 3 units. (CR/NC grading only)
Course Attributes:
• Teacher Credential Program Crs
E ED 757 Teaching Practicum Seminar Phase II (Units: 1-3)
Prerequisites: E ED 746, E ED 756, E ED 701, E ED 749, E ED 784 (or E ED 777). Must be taken concurrently with E ED 747, E ED 782, E ED 777 (or E ED 784).

Development of skills in planning, teaching, and assessing all students across the elementary school curriculum. Instruction in classroom management. Addresses California K-12 content and English language standards. May be repeated for a total of 3 units. (CR/NC grading only.)

Course Attributes:

• Teacher Credential Program Crs

E ED 758 Teaching Practicum Seminar Phase III (Units: 1-3)

Interdisciplinary project based learning in the elementary school. Topics include home school communication and role of school as social service agency and legal issues. Preparation for final standards based teaching performance assessment. May be repeated for a total of 3 units. (CR/NC grading only)

Course Attributes:

• Teacher Credential Program Crs

E ED 760 Seminar on Social Issues and Curriculum Development (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Social issues and their influence on school organization and curriculum development. Patterns of organization and curriculum in elementary schools. (Plus-minus letter grade only)

E ED 761 School Mathematics: Problem Solving (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Curriculum development in mathematics. Problem solving strategies as a unifying theme for content selection. (This course is offered as E ED 761 and S ED 761. Students may not repeat the course under an alternate prefix.)

E ED 763 Integrating Language, Literacy, and Technology in Elementary School Curriculum (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Prepare elementary school teachers to provide English language arts instruction that is enhanced by the thoughtful and effective integration of technology. (Plus-minus letter grading only)

E ED 764 Elementary School Social Studies (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Curriculum development in social studies methods, materials, and curriculum sequence. (Plus-minus letter grade only)

E ED 765 Elementary School Science (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Curriculum development in science methods, materials, and curriculum sequence. (Plus-minus letter grade only)

E ED 767 Elementary School Creative Arts (Units: 3)
Prerequisite: Consent of Elementary Education adviser or instructor.

Curriculum development in creative arts methods, materials, and curriculum sequence. (Plus-minus letter grade only)

E ED 769 Practitioner Research in Elementary Classrooms (Units: 3)
Prerequisite: Multiple subject credential or consent of instructor.

Examination of methods of practitioner research that allow teachers to address problems of practice as they arise in the classroom. Students become familiar with relevant research literature and engage in targeted practitioner research relevant to their current teaching placement.

E ED 770 Teaching Integrated Literacy and Assessment, TK-5 (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential Program.

On-going classroom instructional strategies highlighting integrated approach to content and literacy acquisition. Administration and interpretation of a variety of assessments to identify and design instructional intervention. (AB/NC grading only)

E ED 771 Literacy Clinic II: Multidisciplinary Assessment and Remediation of Language and Literacy Problems (Units: 3)
Prerequisite: E ED 770.

Theory and proficiency in the practice and adaptation of test administration skills and interactive instructional strategies. Students assess and tutor K-12 children with reading and language problems. (AB/NC grading only)

E ED 772 Literacy Education Clinic I (Units: 1-3)
Prerequisites: Candidate in Reading Specialist Credential Program; must be taken concurrently with E ED 770.

Teach one-to-one struggling readers or provide instruction to small groups of struggling readers in an elementary school setting. Candidates use intervention strategies to improve reading. (CR/NC only)

E ED 773 Literacy Education Clinic II (Units: 1-3)
Prerequisites: Reading Specialist Candidate; E ED 770; and concurrent enrollment in E ED 771.

Teach in a school setting using intervention reading strategies to assist and support struggling readers who are adolescents. (CR/NC only)

E ED 777 Curriculum and Instruction in Science (Units: 3)
Prerequisite: Admission to Multiple Subject Credential program.

Planning, developing, teaching, and evaluating learning experiences in science. Performance based objectives. Classroom, 1 unit; laboratory, 2 units. (Plus-minus letter grade only)

Course Attributes:

• Teacher Credential Program Crs

E ED 781 Curriculum, Instruction, and Assessment for Teacher Leaders (Units: 3)
Prerequisite: E ED 760.

Curriculum, instruction, and assessment for elementary teachers. Examination of the role of leaders in teaching and learning and high quality professional development. (AB/NC grading only)
E ED 782 Teaching Reading/Language Arts K-3 (Units: 3-4)
Prerequisites: Admission to Multiple Subjects Credential program; could be taken concurrently with E ED 701, E ED 749, E ED 783, E ED 784 or E ED 777.

Research-based teaching practices for early literacy development. Systematic and explicit instruction in teaching a comprehensive literacy curriculum in grades K-3 that includes oral language development. Basic reading skills, strategic reading behavior, language arts skills, vocabulary and writing development. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

E ED 783 Developmental Teaching and Learning in Diverse School Settings, K-8 (Units: 3)
Prerequisites: Acceptance to MSC program; could be taken concurrently with E ED 701, E ED 749, E ED 782, E ED 784 or E ED 777.

Theory and research based examination of cognitive, social-emotional, ethical, and physical development in sociocultural contexts including special populations. Impact of culture, family, community, and school. Guided experience in schools. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

E ED 784 Curriculum and Instruction in Mathematics (CLAD Emphasis) (Units: 3)
Prerequisite: Admission to Multiple Subjects Credential program.

Methods and materials for teaching mathematics to linguistically and culturally diverse elementary school students. Review of content of mathematics curriculum, classroom organization, assessment, and guided experiences in schools. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

E ED 785 Literacy Theories: Connections to Classroom Practices (Units: 3)
Prerequisite: Enrolled in Elementary Education MA Concentration in Language and Literacy.

Research on literacy theories that have influenced education in the US. Examination of critical literacy theories, research, and the connections to classroom practices in elementary schools.

E ED 786 Seminar in Developmental Teaching and Learning (Units: 3)
Prerequisites: Restricted to graduate students enrolled in Multiple Subjects Credential program; concurrent enrollment in E ED 746 or E ED 747.

Examination of cognitive, social-emotional, ethical, and physical development of children in sociocultural contexts; interrelated impacts of culture, family, community, and school on development; educational research and its applications to create positive and productive learning environments. (Plus-minus AB/NC)

E ED 787 Foundations in Social Studies Curriculum and Instruction (Units: 3)
Prerequisite: Admission to Multiple Subject Credential Program.

Curriculum and instruction in elementary classrooms. Development of a critical perspective assists candidates in forming an educational philosophy derived from a social justice and English Language Development (ELD) perspectives for culturally and linguistically diverse classrooms.

E ED 788 Curriculum and Instruction in Mathematics for Bilingual Teachers 2: Deepening Content and Pedagogy (Units: 3)
Prerequisites: Restricted to students in the Multiple Subject Credential Bilingual Program; E ED 784.

Necessary language to teach mathematics in Spanish and English, and pedagogical content knowledge for teaching algebra, geometry, and probability for K-8. Curriculum development, assessment techniques, and culturally responsive practices are emphasized. (Plus-minus letter grade only)

E ED 796 Analyzing Cases of Mathematical Teaching (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Cases of mathematics teaching practice are a catalyst for analytic discussion of assessment, mathematical representation, and student misconceptions. Teaching decisions are evaluated in the context of real classroom situations with regard to their impact on student learning, motivation, and beliefs. (Plus-minus letter grade only)
(This course is offered as E ED 796 and S ED 796. Students may not repeat the course under an alternate prefix.)

E ED 799 Pact Independent Plan (Units: 1-3)

E ED 801 Practitioner Inquiry for Administration of Early Childhood Curricula (Units: 3)
Prerequisites: E ED 700, E ED 707, E ED 708, or consent of instructor.

Application of practitioner research for developing and evaluating early childhood curricula. Reflective practice and collaborative action research methodologies for coordination and administration of curricula.

E ED 806 Leadership, Adult Supervision, and Family Advocacy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Comprehensive study and training in current research, theory, and implementation of administration and leadership goals, strategies, and programs for young children, families, and educators. Adult supervision, leadership, and advocacy in early childhood settings. (Plus-minus letter grade only)

E ED 807 Leadership Development in Mathematics Education (Units: 3)
Prerequisite: Consent of instructor.

Enhancement and development of mathematical ideas and instructional methodologies from a classroom perspective to a theoretical framework. Knowledge of curriculum development and leadership skills; dissemination to other teachers.
(This course is offered as E ED 807 and S ED 807. Students may not repeat the course under an alternate prefix.)

E ED 820 Seminar in Infant-Toddler Group Care Education Programs (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Seminar in infant-toddler development. Theory, research, and practice in diverse settings. Temporary issues in infant-toddler care, cross-cultural perspectives, and caregiver models. (Plus-minus letter grade only)
E ED 850 Seminar in Early Childhood Mathematics and Science Curriculum (Units: 3)
Prerequisites: E ED 700, E ED 707, E ED 708, or consent of instructor.
Planning, developing instructional materials, and evaluating learning experiences for children ages pre-kindergarten to eight in mathematics and the life and physical sciences. (Plus-minus letter grade only)

E ED 856 Assessing Mathematical Thinking (Units: 3)
Prerequisite: Consent of instructor.
Assessment strategies for classroom use; dimensions of students’ mathematical thinking and learning. Development of performance assessments includes open-ended tasks and portfolios. (This course is offered as E ED 856 and S ED 856. Students may not repeat the course under an alternate prefix.)

E ED 869 Enhancing Access for Bi-Literate Learner, TK-12 (Units: 3)
Prerequisite: Preliminary teaching credential or candidate in the Multiple Subject Credential program.
Introduction to theories on language development for bilingual and bi-literate learners from preschool to 12th grade. Examining how bi-cultural and bilingual students develop bi-literacy. Investigating research-based instructional strategies that provide curriculum access to students in classroom settings. (Plus-minus letter grade only)

E ED 878 Multicultural Educational Theory and Practice for the Young Child (Units: 3)
Prerequisite: Consent of instructor.
Relationships among ethnic identity, culture, and human development; multicultural curriculum design and pedagogical strategies that recognize ethnic displays of competence and utilize cognitive preferences developed in particular socialization practices. (Plus-minus letter grade only)

E ED 882 Literacy Instruction in K-12 Classrooms (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Methods, materials, and assessment for teaching diverse reading/language arts to linguistically and culturally diverse students in grades K-12; linguistic and print concepts; reading comprehension; developmental strategies; guided experiences in schools. Preliminary Level I primarily intended for Education Specialist Credential students.

E ED 890 Seminar on Field Studies in the Elementary Classroom (Units: 3)
Prerequisite: ISED 797.
Topics in early childhood and elementary education: classroom-based research methods and reflective practice; planning and implementation of research, including literature review, research design, data collection, analysis, and presentation of findings. (CR/NC grading only)

E ED 895 Field Study (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Alternative culminating study for the Master of Arts in Education conducted under direction of graduate major adviser. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)
Engineering (ENGR)

ENGR 100 Introduction to Engineering (Unit: 1)
Prerequisites: High school algebra and trigonometry.

Description of the major engineering fields and their subfields. Day to day activities of engineers. Engineering professionalism, ethics, communication skills, lifelong learning and career planning. Survival skills. Safety issues and School of Engineering policies. (Plus-minus letter grade only)

ENGR 101 Engineering Graphics (Unit: 1)
Prerequisite: Must be taken concurrently with ENGR 100.


ENGR 102 Statics (Units: 3)
Prerequisites: MATH 227, PHYS 220.

Vector treatment of force systems acting on particles and rigid bodies. Centroids and moments of inertia. Trusses, machines, fluid statics, shear and moment diagrams for beams, and friction. Applications to structural and mechanical problems. (Plus-minus letter grade only)

ENGR 103 Introduction to Computers (Unit: 1)
Prerequisite: MATH 226.

Introductory course on programming, using a high-level language. Use of algorithms. Program organization, formulation, and solution of engineering problems. Laboratory.

ENGR 120 Introduction to Computer Engineering (Units: 3)
Prerequisites: High school algebra and trigonometry.

Introduction to the profession, areas of study, university rules and regulations, curriculum requirements, time management and study skills, critical thinking, problem solving skills, ethics, introduction to computer and basic computer skills including graphics, spreadsheet, database, Internet, and web page design. Classwork, 2 units; activity, 1 unit. (ABC/NC grading only)

ENGR 121 Gateway to Computer Engineering (Unit: 1)
Prerequisite: High school algebra and trigonometry.

Hands-on introduction to embedded computer systems. Basic laboratory instrumentation, electronic circuit assembly, measurement, and testing. Introduction to hardware and software of robots. Laboratory. (Plus-minus letter grade only)

ENGR 200 Materials of Engineering (Units: 3)
Prerequisite: CHEM 115 or CHEM 180.

Application of basic principles of physics and chemistry to engineering materials; their structures and properties and the means by which these materials can be made of better service to all fields of engineering. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 201 Dynamics (Units: 3)
Prerequisite: ENGR 102.

Vector treatment of kinematics and kinetics of particles, systems of particles and rigid bodies. Methods of work, energy, impulse, and momentum. Vibrations and time response. Applications to one- and two-dimensional engineering problems. (Plus-minus letter grade only)

ENGR 203 Materials of Electrical and Electronic Engineering (Units: 3)
Prerequisite: CHEM 115 or CHEM 180.

Application of basic principles of physics and chemistry to electrical and electronic engineering materials. Conductors, insulators, and semiconductors; electrical conductors; mechanical properties of conductors; manufacturing conductors; electrochemistry; electrical insulators; plastics; magnetic materials; superconductors and optical fibers. (Plus-minus letter grade only)

ENGR 204 Engineering Mechanics (Units: 3)
Prerequisites: MATH 227, PHYS 220.


ENGR 205 Electric Circuits (Units: 3)
Prerequisites: PHYS 230 and MATH 245; MATH 245 may be taken concurrently.

Circuit analysis, modeling, equivalence, circuit theorems. PSpice simulation. Ideal transformers and operational amplifiers. Transient response of 1st-order circuits. AC response, phasor analysis, impedance, power. (Plus-minus letter grade only)

ENGR 206 Circuits and Instrumentation Laboratory (Unit: 1)
Prerequisite: ENGR 205 (may be taken concurrently).

Electrical measurements and laboratory instrumentation. Verification of circuit laws and theorems. Operational amplifier circuits. AC steady-state behavior and frequency response. Transient characteristics of first-order circuits. Introduction to PSpice. Extra fee required.

ENGR 212 Introduction to Unix and Linux for Engineers (Units: 2)
Prerequisite: Priority enrollment for computer engineering students. Other students may enroll on a space available basis by consent of instructor.

Introduction to software development and program development in the Unix/Linux environment. File system organization and management, editors, utilities, network environment, pattern and file searching, command line interface, scripting languages. Classwork, 1 unit; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 213 Introduction to C Programming for Engineers (Units: 3)
Prerequisite: MATH 226 with a grade of C- or better.

Introduction to C programming; defining and analyzing problems; design of algorithms; implementation, testing, debugging, maintenance and documentation of programs; coverage of basic algorithms, programming concepts and data types; C programming of microcontrollers. (Plus-minus letter grade only)

ENGR 220 Energy: Resources, Alternatives, and Conservation (Units: 3)
Prerequisite: High school level mathematics or consent of instructor.

Energy, natural and renewable resources. Conversion to usable forms of energy. Demand reduction. Effect on resource conservation and environment. Every day usage of energy (in automobiles, homes, and work place) is emphasized. [CSL may be available]
ENGR 235 Surveying (Units: 3)
Prerequisites: ENGR 100 and MATH 226.
Surveying: distance, elevation, and direction measurements; traverse analysis; contours; topography; areas calculations. Introduction to GPS and GIS. The US public lands system. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 290 Modular Elective (Unit: 1)
Prerequisite: Engineering students in sophomore year or later.
Topic to be specified in Class Schedule. May be repeated for a total of 3 units when topics vary. (Plus-minus letter grade only)

ENGR 300 Engineering Experimentation (Units: 3)
Prerequisites: ENGR 200 or ENGR 206, ENGR 205, ENG 214 with grade of C- or better.
This course is first in a series of courses (ENGR 300, ENGR 301 or ENGR 302, ENGR 696, and ENGR 697GW) that when completed with a C or better will culminate in the satisfaction of the University Written Eng Proficiency/GWAR if taken Fall 2009 or later. (Plus-minus ABC/NC grading only)

ENGR 301 Microelectronics Laboratory (Unit: 1)
Prerequisites: ENGR 300 and ENGR 353 (may be taken concurrently).
Measurement techniques, device characterization, experimental verification, and PSpice simulation. 2nd-order transient and frequency responses. Characterization of diodes, BJTs, and FETs. Diode circuits, transistor amplifiers, simple logic gates. Laboratory. Extra fee required.
This course is second in a series of courses (ENGR 300, ENGR 301 or ENGR 302, ENGR 696, and ENGR 697GW) that when completed with a C or better will culminate in the satisfaction of the University Written English Proficiency/GWAR if taken Fall 2009 or later. (Plus-minus ABC/NC grading only)

ENGR 302 Experimental Analysis (Unit: 1)
Prerequisites: ENGR 300, ENGR 304 (may be taken concurrently), and ENGR 309.
Experimental investigation and analysis of engineering systems: structural elements, fluid devices, and thermal systems. Use of computers for data acquisition. Laboratory. Extra fee required.
This course is second in a series of courses (ENGR 300, ENGR 301 or ENGR 302, ENGR 696, and ENGR 697GW) that when completed with a C or better will culminate in the satisfaction of the University Written Eng Proficiency/GWAR if taken Fall 2009 or later. (Plus-minus ABC/NC grading only)

ENGR 303 Engineering Thermodynamics (Units: 3)
Prerequisite: PHYS 240.
Application of thermodynamics to a variety of energy exchanging devices; properties of the pure substance, ideal gases, and mixtures; power and refrigeration cycles. (Plus-minus letter grade only)

ENGR 304 Mechanics of Fluids (Units: 3)
Prerequisites: ENGR 201 and PHYS 240.
Statics and dynamics of incompressible fluids, dimensional analysis, and similitude; fluid friction, laminar, and turbulent flow in pipes; forces on submerged structures; fluid measurements. (Plus-minus letter grade only)

ENGR 305 Linear Systems Analysis (Units: 3)
Prerequisites: MATH 245 and ENGR 205 with a grade of C- or better.

ENGR 306 Electromechanical Systems (Units: 3)
Prerequisite: ENGR 205 with a grade of C- or better.
Electromechanical energy conversion. Operating characteristics of transformers; DC and AC rotating machines: speed, torque, and profile control. Motion control system using stepper motors. System design, specifications, and simulation. (Plus-minus letter grade only)

ENGR 309 Mechanics of Solids (Units: 3)
Prerequisites: ENGR 102 and ENGR 200 (may be taken concurrently).

ENGR 315 Systems Analysis Lab (Unit: 1)
Prerequisite: ENGR 305 (may be taken concurrently).

ENGR 323 Structural Analysis (Units: 3)
Prerequisite: ENGR 309.
Structural engineering, including standards and codes. Determination of loads, discussion of load path. Analysis of statically determined structures. Forces within statically indeterminate structures. Structural analysis software. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 350 Introduction to Engineering Electromagnetics (Units: 3)
Prerequisites: MATH 245 and PHYS 240 with grades of C- or better.

ENGR 353 Microelectronics (Units: 3)
Prerequisites: ENGR 205 and ENGR 206 with grades of C- or better.
PN Diodes, BJTs, and MOSFETs. Semiconductor device basics, characteristics and models. Diode applications. Transistor biasing, basic amplifier configurations, and basic logic circuits. PSpice simulation. (Plus-minus letter grade only)
ENGR 356 Digital Design (Units: 3)
Prerequisite: ENGR 205 with a grade of C- or better.
Number systems. Design of combinational and sequential circuits. Logic simplification. Digital functional units such as adders, decoders, multiplexers, registers, and counters. State-machine design. Storage and programmable devices. Register transfer level.

ENGR 357 Digital Design Laboratory (Unit: 1)
Prerequisite: ENGR 356 (may be taken concurrently).
Circuit construction and troubleshoot techniques. EDA tools and simulation. Combinational and sequential circuits. Semiconductor memory. Extra fee required.

ENGR 364 Materials and Manufacturing Processes (Units: 3)
Prerequisites: ENGR 201 and ENGR 309.
Integration of stress analysis and failure theories with knowledge of materials and manufacturing processes in machine design. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 378 Digital Systems Design (Units: 3)
Prerequisite: ENGR 356 with a grade of C- or better.
CMOS digital circuits and their electrical properties. Logic circuit design with functional units. Algorithmic sequential machine design. Design with programmable logic devices. Hardware description and simulation language. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 410 Process Instrumentation and Control (Units: 3)
Prerequisites: ENGR 300 and ENGR 305.

ENGR 411 Instrumentation and Process Control Laboratory (Unit: 1)
Prerequisite: ENGR 410 (may be taken concurrently).
Instrumentation for measurement of flow, temperature, level and pressure. Experiments on level, flow, and temperature control. PI, PID, and programmable logic controllers.

ENGR 415 Mechatronics (Units: 3)
Prerequisite: ENGR 305.
Basics of a multidisciplinary field that combines electronics, mechanical design and simulation, and control systems. Simulation and design of systems with sensors, controllers and actuators. System elements including common sensors, actuators and various electronic controllers. (Plus-minus letter grade only)

ENGR 416 Mechatronics Lab (Unit: 1)
Prerequisite: ENGR 415 (may be taken concurrently).
Experiments connected with mechatronics concepts. Programming microcontrollers, PLCs, computer-based controllers and their selection for mechatronic systems. Sensor and actuator experiments. Mechatronics project.

ENGR 421 Structural Engineering Laboratory (Unit: 1)
Prerequisite: ENGR 323.
Hands-on experimentation to verify theories and concepts. Develop an understanding of why design specifications are written to avoid detrimental structural behaviors. Laboratory, 1 unit.

ENGR 425 Reinforced Concrete Structures (Units: 3)
Prerequisite: ENGR 323 (may be taken concurrently).
Design of reinforced concrete structural systems. Elements of systems including beams, slabs, columns, connections. Ultimate strength approach to safety and serviceability: bending, shear, and axial loads. (Plus-minus letter grade only)

ENGR 426 Steel Structures (Units: 3)
Prerequisite: ENGR 323 (may be taken concurrently).
Design of steel structures, members, and connections. Effects of loads causing flexure, shear and axial force, and their combinations on design choices. Steels and sections used in structural design. Use of design specifications. (Plus-minus letter grade only)

ENGR 427 Wood Structures (Units: 3)
Prerequisite: ENGR 323 (may be taken concurrently).
Design of wood structures. Design procedures and specifications of the wood structural members subjected to tension, compression, flexure, and combined bending with axial forces. Design building codes and seismic provisions of wood structures. (Plus-minus letter grade only)

ENGR 429 Construction Management (Units: 3)
Prerequisite: ENGR 235.
Construction engineering and management; professional practice and ethics; bidding and contracting; planning and scheduling, network diagrams, scheduling computations, resource management, computer applications; cost estimating; construction safety. (Plus-minus letter grade only)

ENGR 430 Soil Mechanics (Units: 3)
Prerequisite: ENGR 309.
Soil as an engineering material with emphasis on identification, physical and mechanical properties. Evaluation of water flow through soil, settlement, soil strength, earth pressure, pile pullout capacity, and basic slope stability. Laboratory-based term project. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 431 Foundation Engineering (Units: 3)
Prerequisite: ENGR 430.
Settlement of structures on deep and shallow foundations. Evaluation of undrained and drained soil strength. Analysis and design of gravity, cantilever and anchored walls. Ultimate capacity of deep and shallow foundations. (Plus-minus letter grade only)

ENGR 432 Finite Element Methods in Structural and Continuum Mechanics (Units: 3)
Prerequisite: ENGR 309.
Fundamental concepts of the finite element method for one- and two-dimensional elements. Applications in the areas of structural analysis, plane stress and plane strain, and two-dimensional groundwater flow. Computer implementation of finite element techniques. (Plus-minus letter grade only)

ENGR 433 Soil Mechanics Laboratory (Unit: 1)
Prerequisite: ENGR 430 (may be taken concurrently).
Standard commercial soil testing including basic soil properties, in situ density, compaction, permeability, consolidation, grain size, evaluation, and others. Reduction and interpretation of test results. (Plus-minus letter grade only)
ENGR 434 Principles of Environmental Engineering (Units: 3)
Prerequisites: CHEM 115 or CHEM 180; and ENGR 304 (may be taken concurrently).

Fundamentals of environmental engineering: water quality, water chemistry, water treatment, air quality, and solid waste management. (Plus-minus letter grade only)

ENGR 435 Environmental Engineering Design (Units: 3)
Prerequisite: CHEM 115 or CHEM 180.

Design concepts for environmental engineering systems relating to municipal and industrial wastewater treatment, disposal, and reuse. (Plus-minus letter grade only)

ENGR 436 Transportation Engineering (Units: 3)
Prerequisites: ENGR 235 and ENGR 430 (may be taken concurrently).

Principles, theories, and practice of transportation planning and design.

ENGR 437 Water and Energy Recovery from Liquid and Solid Waste (Units: 3)
Prerequisite: CHEM 115 or CHEM 180.

Definitions, liquid waste (wastewater, sludge), solid waste, physical processes, chemical processes, biological (aerobic, anaerobic) processes, chemical reaction kinetics, biological reaction kinetics, fundamentals of process design, conservation of mass, conservation of energy, oxidation-reduction reactions, energy content of organic matter natural processes. (Plus/Minus Letter grade only)

ENGR 439 Construction Engineering (Units: 3)
Prerequisites: ENGR 309 and ENGR 430 (may be taken concurrently).

Topics in construction engineering; construction methods and equipment, excavating, loading, hauling, and finishing; production of construction materials; compressed air and water systems; concrete form design; quality control. (Plus-minus letter grade only)

ENGR 440 Ethical Issues in Science and Technology (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Ethical dimensions of science and technology. Conceptual and theoretical frameworks from the humanities and the life sciences. (This course is offered as BIOL 440 and ENGR 440. Students may not repeat the course under an alternate prefix.)

ENGR 441 Fundamentals of Composite Materials (Units: 3)
Prerequisites: Major or minor; MATH 245 and ENGR 309.


ENGR 442 Operational Amplifier Systems Design (Units: 3)
Prerequisite: ENGR 305 with a grade of C- or better.


ENGR 445 Analog Integrated Circuit Design (Units: 4)
Prerequisites: ENGR 301 and ENGR 353 with grades of C- or better.

Integrated circuit technology, transistor characteristics and models. Analysis and design of monolithic op amps. Frequency response, negative feedback, stability, PSpice simulation. Classwork, 3 units; laboratory, 1 unit. Extra fee required. (Plus-minus letter grade only)

ENGR 446 Control Systems Laboratory (Unit: 1)
Prerequisite: ENGR 447 (may be taken concurrently).

Simulation and modeling of control systems using Matlab and Simulink. Control experiments using servomotors and industrial emulators. Control project. Laboratory.

ENGR 447 Control Systems (Units: 3)
Prerequisite: ENGR 305 with a grade of C- or better.


ENGR 448 Electrical Power Systems (Units: 3)
Prerequisite: ENGR 306 with a grade of C- or better.

Operating characteristics of transmission lines, transformers, and machines. Symmetrical component theory and sequence network method. Use commercial programs to conduct load flow study, short circuit analysis, and economic dispatch problems. State estimation, unit commitment, and system transient and stability issues. (Plus-minus letter grade only)

ENGR 449 Communication Systems (Units: 3)
Prerequisite: ENGR 305 with a grade of C- or better.

Review of linear systems. Amplitude (AM), frequency (FM), and phase (PM) modulation systems. Transmitter and receiver design. Frequency and time-domain multiplexing. Digital modulation techniques: line coding, pulse shaping, channel equalization techniques. Error correcting techniques.

ENGR 451 Digital Signal Processing (Units: 4)
Prerequisites: ENGR 305 and either ENGR 213, CSC 210 or ENGR 290 (Matlab), all with grades of C- or better.


ENGR 453 Digital Integrated Circuit Design (Units: 4)
Prerequisites: ENGR 301, ENGR 353, and ENGR 356 with grades of C- or better.

Integrated circuit technology, transistor characteristics and models. MOS and bipolar logic families, noise margins, speed, power, fanout, interfacing, PSpice simulation. Regenerative circuits and memories. Classwork, 3 units; laboratory, 1 unit. Extra fee required. (Plus-minus letter grade only)
ENGR 455 Power Electronics (Units: 4)
Prerequisites: ENGR 301, ENGR 306, and ENGR 353, all with grades of C- or better.

Power device characteristics. Circuit and component design and analysis concepts. Uncontrolled and phase controlled rectifier circuits. DC to DC converters. Switching DC power supply. Pulse width modulation. DC to AC inverter. Utility interface and harmonic issues. Classwork, 3 units; laboratory, 1 unit. Extra fee required.

ENGR 456 Computer Systems (Units: 3)
Prerequisites: ENGR 356 and either ENGR 213 or CSC 210, all with grades of C- or better.

Computer performance measurements. Instruction set architecture. Program sequencing. Basic processor organization, arithmetic logic unit, simple and pipelined datapaths. Hardwired and microprogrammed control. Memory system configuration, cache and virtual memory management. (Plus-minus letter grade only)

ENGR 458 Renewable Electrical Power Systems and Smart Grid (Units: 3)
Prerequisite: ENGR 306 with a grade of C or better.

Introduction to electric power industry; electric circuit and electric power; transmission lines; transformers; synchronous generators; photo-voltaic systems; wind power systems; smart grid. (Plus-minus letter grade only)

ENGR 461 Mechanical and Structural Vibrations (Units: 3)
Prerequisites: ENGR 201, ENGR 309, and MATH 245.

Dynamic excitation and response of mechanical and structural systems. Frequency and time domain; energy methods, Rayleigh’s principle, modal analysis. Vibration damping, resonance, isolation, absorption parametric excitation, and influence coefficients. (Plus-minus letter grade only)

ENGR 463 Thermal Power Systems (Units: 3)
Prerequisites: ENGR 302 and ENGR 467.

Application of thermodynamics, fluid mechanics, and heat transfer to design of energy systems. Economic and environmental aspects stressed as design criteria. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 464 Mechanical Design (Units: 3)
Prerequisite: ENGR 364.

Application of principles of mechanics, materials science, and stress analysis to design of components and machines. Mechanical behavior of materials. Synthesis and analysis of major machine design project. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 465 Principles of HVAC (Units: 3)
Prerequisites: ENGR 303 and ENGR 304.

Air requirements in buildings, heating and cooling load calculation methods and computer software, heating and cooling equipment, flow in pipes and ducts, and clean room technology. (Plus-minus letter grade only)

ENGR 466 Gas Dynamics and Boundary Layer Flow (Units: 3)
Prerequisites: ENGR 303 and ENGR 304.

Review of the fundamentals of fluid dynamics, formulation and application of compressible fluid flow, shock waves. Concept and formulation of laminar and turbulent boundary layers, external flows, flow around immersed bodies.

ENGR 467 Heat Transfer (Units: 3)
Prerequisites: ENGR 303 and ENGR 304.

Fundamental principles of heat transfer with applications to design. Conduction, transient and steady state; free and forced convection; radiation. Heat exchangers. (Plus-minus letter grade only)

ENGR 468 Applied Fluid Mechanics and Hydraulics (Units: 3)
Prerequisite: ENGR 304.

Fluid mechanics: incompressible flow to steady and transient flow problems in piping networks, turbo-machines, and open channels. (Plus-minus letter grade only)

ENGR 469 Alternative and Renewable Energy Systems (Units: 3)
Prerequisite: ENGR 303.

Theory and practical applications of renewable energy systems, including solar, hydro, and wind power. Biomass and biofuels. Environmental, social, and economic factors related to energy conversion processes. (Plus-minus letter grade only)

ENGR 470 Biomechanics (Units: 3)
Prerequisites: Mechanical and Civil Engineering major and minor; ENGR 300 and ENGR 309.

Understanding and characterizing the mechanical behavior of biological tissues and systems with emphasis on the fundamentals of biomechanics including force analysis, mechanics of deformable bodies, stress analysis, and viscoelasticity. (Plus-minus letter grade only)

ENGR 476 Computer Communications Networks (Units: 3)
Prerequisites: ENGR 356 and either ENGR 213 or CSC 210, all with grades of C- or better.

Technological precedence and alternatives in setting up a computer communication network. OSI, DSL, cable modems, PPP, Ethernet, TCP/IP, wireless LANs, Frame Relay, ATM, and SONET topics. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ENGR 478 Design with Microprocessors (Units: 4)
Prerequisites: ENGR 356 and either ENGR 213 or CSC 210, all with grades of C- or better.


ENGR 491 Real-time Digital Signal Processing (Units: 3)
Prerequisites: Restricted to upper division standing; ENGR 213 and ENGR 451.

Implementation of real-time digital signal processing algorithms on special-purpose hardware. Use of assembly and C languages to develop and test IIR and FIR filters, FFT, and waveform generation for modern DSP chips, Fast convolution. Sampling aliasing and jitter. Scaling for fixed point arithmetic. Special analysis, DSP applications, including sound synthesis and real-time audio signal processing. Lecture, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)
ENGR 610 Engineering Cost Analysis (Units: 3)
Prerequisites: ENGR 103 or ENGR 213 (may be taken concurrently) and MATH 227 (may be taken concurrently).

Quantifying alternative for decision making, time-value of money, project investment evaluation, comparison of alternatives, engineering practice applications, and introduction to value engineering. (Plus-minus letter grade only)

ENGR 620 Wheelchair Building (Units: 2)
Prerequisite: Upper division standing or consent of instructor. Gas brazing skills preferred; taught when needed.

This course is for both beginning and advanced designers and fabricators. Building a wheelchair from scratch; testing new designs; learning metal fabrication and small manufacture techniques. For more information, please go to http://www.whirlwindwheelchair.org.

ENGR 693 Cooperative Education Program (Units: 3-12)
Prerequisite: Upper division standing or consent of instructor.

Intended for engineering majors. Supervised employment in an academically relevant field of study. Units do not count toward the major. May be repeated for a total of 24 units. (CR/NC grading only)

ENGR 694 Cooperative Education in Engineering (Unit: 1)
Prerequisite: Consent of adviser.

Written and oral report of work performed with outside agency. Evaluation of work by engineering adviser and/or faculty committee. (CR/NC grading only)

ENGR 696 Engineering Design Project I (Unit: 1)
Prerequisites: Senior standing with 21 upper division units in engineering; ENGR 301 or ENGR 302.

Selection of design project, methods of research, time management, engineering professional practice and ethics. This course is 3rd in a series of courses (ENGR 300, ENGR 301 or ENGR 302, ENGR 696, and ENGR 697GW) that when completed with a C or better will culminate in the satisfaction of the University Written English Proficiency/GWAR if taken Fall 2009 or later. (Plus-minus ABC/NC grading only)

ENGR 697GW Engineering Design Project II-GWAR (Units: 2)
Prerequisite: ENGR 696.

Continue work on design project with maximum independence under supervision of a faculty adviser. Oral and written project reports required. May be repeated in the case of a double major. This is the final course in a series (ENGR 300, ENGR 301 or ENGR 302, ENGR 696, and ENGR 697GW) that when completed with a C or better will culminate in the satisfaction of the University Written English Proficiency/GWAR if taken Fall 2010 or later. (Plus-minus ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

ENGR 699 Independent Study (Units: 1-3)
Prerequisite: Approval of division and instructor.

Special study in the laboratory, field, or library under the direction of a member of the division. The student must present a detailed written report of the work accomplished. May be repeated.

ENGR 800 Engineering Communications (Units: 3)
Prerequisite: Graduate status in engineering.

Types and modes of communications used by engineers in professional practice. Learning models for effective communications, both oral and written. (Plus-minus letter grade only)

ENGR 801 Engineering Management (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

History and evolution of engineering, ethics and professionalism, business aspects of contracts and specifications, litigation and arbitration, planning and scheduling, quality control, personnel management. (Plus-minus letter grade only)

ENGR 820 Energy Resources and Sustainability (Units: 3)
Prerequisites: Graduate standing or consent of instructor; ENGR 303.

Overview of conventional and renewable energy resources. Energy conversion processes, flow pathways, and end uses. Environmental impacts, sustainability, and economics of energy systems.

ENGR 823 Introduction to Seismology (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Fundamentals of seismic wave propagation using physical approaches, application of wave propagation theory in studying earth structure, thus earthquake evolution; seismometry fundamentals, applications to societal issues; foundation in theoretical seismology and earthquake engineering. (Plus-minus letter grade only)

ENGR 825 Bridge Engineering and Prestress Reinforced Concrete Structures (Units: 3)
Prerequisites: Graduate standing; ENGR 425.

Application of structural theory in the design of complete systems for bridges. Focus on prestressed concrete, bridge engineering and others innovative design subjects in structural engineering. (Plus-minus letter grade only)

ENGR 826 Seismic Hazard Analysis (Units: 3)
Prerequisites: Graduate standing; ENGR 425 or ENGR 426.

Review of fundamentals of seismic hazard analysis, strong ground motions, attenuation relations; probabilistic and deterministic methods; seismic code provisions and ground motions. Introduction of appropriate selection of acceleration records for dynamic analysis. (Plus-minus letter grade only)

ENGR 827 Structural Design for Fire Safety (Units: 3)
Prerequisites: Graduate or senior standing; ENGR 323, ENGR 425 or ENGR 426.

Standard fire time-temperature curve and its limitations, properties of concrete, steel and fire protection materials at elevated temperature environment; load capacity of structural components under fire; fire resistance design of steel, composite, concrete and timber structures. (Plus-minus letter grade only)

ENGR 828 Seismic Isolation and Energy Dissipation (Units: 3)
Prerequisites: Graduate standing in structural/earthquake engineering; ENGR 461 (or equivalent).

Concepts of base isolation and energy dissipation for seismic hazard mitigation.
ENGR 829 Advanced Topics in Structural Engineering (Units: 3)
Prerequisites: Graduate standing in Engineering or consent of instructor; ENGR 323 and ENGR 461.

ENGR 830 Finite Element Methods in Structural Continuum Mechanics (Units: 3)
Prerequisites: Graduate standing in engineering or consent of instructor; ENGR 309 and MATH 245.
Matrix methods of stress analysis; concepts of the finite element methods; bar elements; two-dimensional elasticity; plate bending; axisymmetrical problems; modeling; solution validation; dynamics using FEM; problems in nonlinear material and geometry.

ENGR 831 Advanced Concrete Structures (Units: 3)
Prerequisites: Graduate standing in engineering; ENGR 425.
Advanced design of reinforced concrete structural systems. Design of reinforced concrete frames considering seismic loads. (Plus-minus letter grade only)

ENGR 832 Advanced Topics in Seismic Design (Units: 3)
Prerequisites: Graduate standing in engineering or consent of instructor; ENGR 425, ENGR 426, and ENGR 461.

ENGR 833 Principles of Earthquake Engineering (Units: 3)
Prerequisites: Graduate standing in engineering; ENGR 461; or consent of instructor.
Earthquake ground motions; development of response spectra and effects of local site conditions on spectra. Dynamic response of single and multi-degree of freedom systems to earthquakes. Seismic damage to buildings. Earthquake resistive design. (Plus-minus letter grade only)

ENGR 835 Advanced Steel Structures (Units: 3)
Prerequisites: Graduate standing in engineering; ENGR 426.
Advanced design of steel structures, plate girders, and connections. Steel structural design considering effects of torsion and combined bending and axial load. Design of steel frames considering seismic loads. Steel design emphasizing Load and Resistance Factor Design. (Plus-minus letter grade only)

ENGR 836 Structural Design for Earthquakes (Units: 3)
Prerequisite: Graduate standing in engineering or ENGR 425, ENGR 426.
Earthquake resisting systems in buildings; seismic design criteria for structures; seismic upgrade and retrofit; computer applications in structural modeling and analysis for seismic forces.

ENGR 837 Geotechnical Earthquake Engineering (Units: 3)
Prerequisites: ENGR 430; ENGR 461 (may be taken concurrently).

ENGR 838 Smart Structures Technology (Units: 3)
Prerequisites: Graduate standing in structural/earthquake engineering or civil engineer seniors; ENGR 323 and ENGR 461; or consent of instructor.
Focus on smart structure technologies in the applications to structures including areas of structural control, structural health monitoring, and smart sensing. Topics include structural system identification, stability analysis, sensor data acquisition systems, and signal processing tailored specifically for structural engineering. (Plus-minus letter grade)

ENGR 844 Embedded Systems (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Trends and challenges of embedded systems. Introduction of design and use of single-purpose processors (hardware) and general-purpose processors (software). Discussion of memories and buses, advanced computation models, control systems, chip technologies, and modern design tools.

ENGR 846 Power Quality Issues: Problems and Solutions (Units: 3)
Prerequisites: ENGR 306 and ENGR 455.
Harmonics problems in power transmission and distribution systems. Causes of voltage and current harmonics; identification of problems; mitigation techniques to problems.

ENGR 848 Digital VLSI Design (Units: 3)
Prerequisite: ENGR 353.

ENGR 849 Advanced Analog IC Design (Units: 3)
Prerequisites: Graduate standing; ENGR 353, ENGR 442, and ENGR 445; or consent of instructor.
Fundamentals of analog integrated circuits design along with the nanometer CMOS technology; introduction of the mixed-signal IC design theories and practices; advanced analog IC blocks; practice of the analog design using state-of-art CAD tools. (Plus-minus letter grade only.)

ENGR 850 Digital Design Verification (Units: 3)
Prerequisites: Engineering majors; ENGR 378.
Concepts and methodologies established for verification of complex digital designs, based on the language of System Verilog that has evolved as a standard language for verification and testbench design. Verification methodologies include random stimulus generation with automatic self-checking features to detect design bugs, and with coverage features as a measure of level of confidence in verification.

ENGR 851 Advanced Microprocessor Architectures (Units: 3)
Prerequisite: ENGR 456.
Microprocessor architecture and register organization. Multiprogramming, process scheduling and synchronization, and multitasking. Memory management and privileged machine states. Examples of 32-bit machines. Reduced architectures: RISC approach, MIPS. (Plus-minus letter grade only)
ENGR 852 Advanced Digital Design (Units: 3)
Prerequisite: ENGR 356 or equivalent.
Design of fundamental and pulse mode circuits, design with
programmable logic devices, computer simulation of digital circuits,
reliable digital system design techniques, testing and design for
testability. (Plus-minus letter grade only)

ENGR 853 Advanced Topics in Computer Communication and Networks
(Units: 3)
Prerequisite: ENGR 476 with a grade of C or better.
Computer communication networks for broadband services; current
networking and communication technologies; new technologies and their
utilization in emerging broadband multimedia applications.

ENGR 854 Wireless Data Communication Standards (Units: 3)
Prerequisite: Background in communication systems or consent of
instructor.
Characteristics of wireless channels. Wireless local area networks,
Bluetooth, high-rate and low-rate wireless personal area networks, and
wireless broadband access. Medium-access control layers, security and
quality of service.

ENGR 855 Advanced Wireless Communication Technologies (Units: 3)
Prerequisites: Graduate standing; ENGR 449 and ENGR 451.
Software radio architecture. Analysis and design of software radios. RF/
IF conversion, ADC, and DAC. Radio resource management. Digital signal
processing for software radio applications. Software characterization.
Antenna diversity, smart antennas, programmable antennas, and
advanced antenna systems. Applications of software radios. Ultra-wide
band (UWB) communication systems.

ENGR 856 Nanoscale Circuits and Systems (Units: 3)
Prerequisites: ENGR 378, ENGR 453, and ENGR 890 or equivalent or
consent of instructor.
Advanced topics in VLSI device, circuit and system design including high-
performance and low-power design issues, challenges of technology
scaling, technologies and solutions at different levels of abstraction.
Requires class project. (Plus-minus letter grade only)

ENGR 863 Advanced Thermal-fluids (Units: 3)
Prerequisites: Graduate standing, ENGR 303, ENGR 304 or equivalents.
Development of thermodynamics and fluid mechanics concepts at the
graduate level. Topics include chemical reactions, chemical and phase
equilibrium, and compressible flow. Emphasis on use of software tools
for engineering analysis. (Plus-minus letter grade only)

ENGR 865 Energy-Efficient Buildings (Units: 3)
Prerequisites: Graduate standing or consent of instructor; ENGR 467.
Theory and implementation of energy-efficient building technologies.
Topics include energy-efficient systems for HVAC, lighting, and water
heating, building thermal management, and building energy simulation.
(Plus-minus letter grade only)

ENGR 866 Air Quality Engineering (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Review of air quality standards and environmental and human health
impacts of airborne pollutants. Analysis of pollutant formation
mechanisms, atmospheric fate and transport, and engineering strategies
for emissions measurement and control.

ENGR 867 Energy Auditing and Measurement and Verification (Units: 3)
Prerequisites: Engineering majors; ENGR 205 and ENGR 467.
Focus on detailed methods for energy audit and measurement and
verification of energy savings in commercial and industrial facilities;
details on utility rate schedules, benchmarking, and various energy
efficiency and conversation measures and methods.

ENGR 868 Advanced Control Systems (Units: 3)
Prerequisite: ENGR 447 or equivalent.
Advanced feedback control and simulation techniques. Sensor filtering
and estimation. State space control and modern control topics. Real time
control and implementation in embedded systems. (Plus-minus letter
grade only)

ENGR 869 Robotics (Units: 3)
Prerequisite: Graduate standing or senior undergraduate students who
had passed ENGR 201, ENGR 305, and ENGR 447 with a grade of B or
time.
Kinematics and kinetics of robotic manipulators including serial
manipulators, parallel manipulators and legged robots. (Plus-minus letter
grade only)

ENGR 871 Advanced Electrical Power Systems (Units: 3)
Prerequisites: Graduate standing in Engineering; MATH 245 or equivalent.
Theoretical and practical aspects of transients in electric power systems,
with a focus on the integration of renewable energy systems into
the existing electrical grid. Topics include switching transients and
commutation effects, surge phenomena and system protection, and
reactive power. (Plus-minus letter grade only)

ENGR 890 RF Devices and Transceiver Principles and Design (Units: 3)
Prerequisite: ENGR 350.
RF devices: filter, duplexer, combiner, divider, coupler; baseband/RF
devices: I/Q modulator and demodulator, mixer, ADC, DAC; receiver
design: noise figure, IMD products, dynamic range, synthesizer,
phase locked loop; transmitter design: amplifier classes, linearization
techniques. (Plus-minus letter grade only)

ENGR 895 Applied Research Project (Units: 3)
Prerequisites: Classified graduate standing with 12 units of graduate
work and passing score on GET, SCI 614; consent of instructor and
approval of Advancement to Candidacy (ATC) and Culminating
Experience (CE) forms by Graduate Studies. Comprehensive research-
based engineering study detailing the objectives, methods, and findings
of the research. Oral presentation is required. Advancement to Candidacy
and Proposal for Culminating Experience Requirement forms must be
approved by the Division of Graduate Studies before registration. (Plus-
minus letter grade, CR/NC, RP)

ENGR 897 Research (Units: 3)
Prerequisites: ENGR 800 and ENGR 801 and completion of nine units of
graduate work.
Independent investigation or significant design project under supervision
of an Engineering faculty member. Intended as the research investigation
leading to the master’s thesis. May be repeated for a total of 6 units.
(Plus-minus AB/NC, RP)
ENGR 898 Master's Thesis (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) for the Master of Science in Engineering and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement Forms must be approved by the Graduate Division prior to registration. (Plus-minus AB/NC, RP)

ENGR 899 Independent Study (Units: 1-3)
Prerequisite: Approval of department and consent of instructor.

Special study of a particular problem or subject under the direction of a member of the department. Open only to graduate students in engineering. Students must present a detailed written report of the work accomplished to the department faculty. May be repeated for a total of 6 units.
English (ENG)

ENG 104 First Year Composition Stretch I (Units: 3)
Prerequisite: Directed Self-Placement must be completed prior to enrollment.
Critical thinking skills in reading and writing. Emphasis on academic argumentation, working with and evaluating sources, conducting research and using rhetorical approaches. (ABC/NC grading, CR/NC allowed)
(Note: Successful completion of ENG 104 and ENG 105 will culminate in satisfying the Written English Composition I requirement (GE Area A2). The minimum grade for satisfying the requirement in Area A2 is a C-.)

ENG 105 First Year Composition Stretch II (Units: 3)
Prerequisite: ENG 104.
Second semester of a year-long course. Continue to develop and exercise critical thinking skills in reading and writing. Emphasis on academic argumentation, working with and evaluating sources, conducting research and using rhetorical approaches. (ABC/NC grading, CR/NC allowed)
(Note: Successful completion of ENG 104 and ENG 105 will culminate in satisfying the Written English Composition I requirement (GE Area A2). For this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• A2: Written English Comm I

ENG 112 Reading and Writing Techniques (Unit: 1)
Prerequisite: Consent of instructor.
Reading and/or writing skills: reading and study skills, comprehension, vocabulary, spelling, development of basic writing and composition abilities. May be repeated for a total of 6 units. (CR/NC grading only)

ENG 114 First Year Composition (Units: 3)
Prerequisites: Must complete Directed Self-Placement prior to enrollment or see Written English Requirements section of this Bulletin for other eligibility criteria.
Critical thinking skills in reading and writing. Emphasis on academic argumentation, working with and evaluating sources, conducting research and using a variety of rhetorical approaches. (ABC/NC grading, CR/NC allowed)
(Note: For this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• A2: Written English Comm I

ENG 122 The Evolution of Language in the Digital Age (Units: 3)
Examination of language patterns and linguistics structure of local and global online and digital communications.

ENG 201 Accelerated Academic English I- Multilingual (Units: 4)
Prerequisite: For multilingual first-year students who score 141 or below on EPT.
English skills and proficiency for university course work: reading comprehension, critical reading, critical thinking, composing skills for academic writing, grammar editing. Classwork, 3 units; laboratory, 1 unit. (ABC/NC grading, CR/NC allowed)

ENG 202 Accelerated Academic English II--Multilingual (Units: 4)
Prerequisite: ENG 201.
English reading, writing, and critical thinking. Classwork, 3 units; laboratory, 1 unit. (ABC/NC grading, CR/NC allowed)

ENG 204 Effective Literacy Skills for College--Multilingual (Units: 3)
Prerequisite: Must take CMSPT prior to enrolling.
Development of university-level reading, writing, and information literacy skills. May be repeated for a total of 6 units. (ABC/NC grading, CR/NC allowed)

ENG 208 Grammar for Writing--Multilingual (Units: 3)
Prerequisite: Must take CMSPT prior to enrolling.
Grammatical accuracy in written work. Structures typically reviewed and practiced include articles, verb forms and tenses, and sentence structure. May be repeated for a total of 6 units. (ABC/NC grading, CR/NC allowed)

ENG 209 First Year Composition--Multilingual (Units: 3)
Prerequisite: Qualifying score on CMSPT or recommendation from instructor of a previously-completed CMS course.
Practice in writing and critical reading; an introduction to expository/arguementative writing and the composing process. Fulfills first-year written English requirement. (ABC/NC grading, CR/NC allowed)
(Note: For this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• A2: Written English Comm I

ENG 210 Oral Communication - Multilingual (Units: 3)
Development of skills in listening, speech delivery, and preparation and presentation of informative and persuasive speeches. (ABC/NC grading, CR/NC allowed)
(Note: For this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• A1: Oral Communication

ENG 212 Advanced Grammar for Writing--Multilingual (Units: 3)
Prerequisite: Qualifying score on CMSPT or recommendation from an instructor of a previously-completed CMS course.
Grammatical accuracy and variety at the sentence and discourse levels. Readings, grammatical analysis, and compositions with emphasis on editing. May be repeated for a total of 6 units. (ABC/NC grading, CR/NC allowed)

ENG 214 Second Year Written Composition: English (Units: 3)
Prerequisite: ENG 114 or equivalent with grade of CR or C- or better.
Flexible reading and writing skills for academic inquiry and for engaging with social issues; varied composing and revising skills; critical analysis and self-reflection, with special attention to rhetorical variation; fine-tuning research. (Plus/minus ABC/NC, CR/NC allowed) [CSL may be available]
Course Attributes:
• A4: Written English Comm II
ENG 215 Second Year Composition: Multilingual (Units: 3)
Prerequisites: Qualifying score on CMSPT and ENG 114 or equivalent with a grade of CR or C- or better or ENG 209 with a grade of CR or C- or better.
Expository argumentative composition and critical reading of nonfiction: supporting arguments with outside sources, developing revising strategies and research skills. (Plus/minus ABC/NC, CR/NC allowed) [Formerly ENG 310]
Course Attributes:
• A4: Written English Comm II

ENG 230 Literature and Film (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
The intersections of literature and film and textual forms. Focus on literary adaptation, narrative kinds, and close reading of all texts.
Course Attributes:
• C3: Humanities: Literature

ENG 231 Shakespeare on Film (Units: 3)
Prerequisite: ENG 114 or consent of instructor.
Examination of selected Shakespearean plays as well as significant film and video adaptations. Extensive work with Shakespeare's language in both comedies and tragedies. Detailed analysis of cinematic conventions and innovations in the best of Shakespeare on film.
Course Attributes:
• C3: Humanities: Literature

ENG 240 Heroes and Antiheroes in Literature (Units: 3)
Prerequisites: ENG 114 or consent of instructor.
Examination of archetypes of heroes and antiheroes in English language literature. Detailed analysis of identity, power, hierarchy, and privilege in complex literature, primarily from the 16th-20th centuries.
Course Attributes:
• C3: Humanities: Literature

ENG 241 The Good Life: Literature and the Pursuit of Happiness (Units: 3)
Prerequisite: ENG 114 or consent of instructor.
Focus on enduring concern in literature: the definition of a life of meaning and happiness--The Good Life. Examination of how texts from ancient civilizations through the present both mirror and shape morality, materialism, pleasure, and purpose in English tradition.
Course Attributes:
• C3: Humanities: Literature

ENG 250 The Study of Literature (Units: 3)
Prerequisite: ENG 114 or consent of instructor.
Methods and principles for close reading literature in major genres, especially fiction, drama, and poetry. Examination and analysis of a wide variety of literary styles in works from a diverse range of both major and lesser-known writers.
Course Attributes:
• C3: Humanities: Literature

ENG 251 The Lyric Poem in English (Units: 3)
Prerequisite: ENG 114 or consent of instructor.
Examination of a wide range of forms, styles, themes, and modes available in short lyric poetry. Detailed analysis of both form and content in the work of a variety of major and lesser-known poets.
Course Attributes:
• C3: Humanities: Literature

ENG 252 The Novel in English (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Major English and American novelists and variations in the genre between Defoe and the present.
Course Attributes:
• C3: Humanities: Literature

ENG 253 Drama in English (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
The nature of dramatic literature in the English language. The changing conditions of form and subject matter in the development of dramatic literature from earliest examples to the modern.
Course Attributes:
• C3: Humanities: Literature

ENG 254 Masterworks of Literature in English (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Critical appreciation of literary masterworks in English by representative authors selected from the vast array of literature in the English language.
Course Attributes:
• C3: Humanities: Literature

ENG 255 Contemporary Literature (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Selected poetry, fiction, and drama of the late 19th century to the present.
Course Attributes:
• C3: Humanities: Literature

ENG 258 American Literature (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Selected masterpieces of American literature.
Course Attributes:
• C3: Humanities: Literature

ENG 259 Introduction to Shakespeare (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
For potential English majors unacquainted with Shakespeare's work and non-majors not yet conscious of themselves as heirs of Shakespeare's language and culture, and beneficiaries of his dramatic gifts.
Course Attributes:
• C3: Humanities: Literature
ENG 260 Introduction to Science Fiction (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Surveys the development of science fiction narratives in English through exploring four classic conventions of the genre: encounters with aliens, the possibilities of machine intelligence, utopias/dystopias, and post-apocalyptic scenarios.
Course Attributes:
  • C3: Humanities: Literature

ENG 261 The Vampire Tradition (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
The vampire in literature and film as a rich, complex icon that exaggerates culture anxieties about otherness, morality, and identity, and reveals changing social attitude about race, class, gender, and sexuality.
Course Attributes:
  • C3: Humanities: Literature

ENG 265 Introduction to Global Literature in English (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Examination of literature written in English that does not fall into conventional boundaries of American and British literature. Topics covered may include migration, globalization, cultural exchange, and legacies of American and British imperialism.

ENG 270 Reading Videogames (Units: 3)
Prerequisite: ENG 114 or consent of instructor.
Examination of video games as texts whose meaning is produced through the complex interplay of narrative, rules, and cultural context. Focus on reading and writing about video games using critical perspectives and methods of literary analysis.
Course Attributes:
  • C3: Humanities: Literature

ENG 280 Popular Drama and Social Critique (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Examination of the drama performed in the street from the middle ages to present with a focus on performances in Britain and the U.S.
Course Attributes:
  • C3: Humanities: Literature
     • Social Justice

ENG 380 British and American Travellers to Greece (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of the genre of travel writing to Greece in British and American letters from the Romantic to the postmodern periods. Authors include Byron, Wilde, Woolf, and Miller. (This course is offered as MGS 380 and ENG 380. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-C: Arts and/or Humanities
     • Global Perspectives

ENG 398 Greek American Literature (Units: 3)
Prerequisite: ENG 114 or equivalent.
A survey of the major Greek American authors and poets of the 20th century. (This course is offered as MGS 397 and ENG 398. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-C: Arts and/or Humanities
     • Global Perspectives
     • Social Justice

ENG 401 Introduction to Writing Studies (Units: 3)
Prerequisite: Satisfaction of Lower Division Written English Communication I (A2) and Written English Communication II (A4).
Examination of writing as both a practice and an object of study through historical, theoretical, and critical lenses. Key concepts include writing processes, genre, audience, rhetoric, discourse communities, academic literacy, language diversity, writing with technologies and new media.
Course Attributes:
  • UD-C: Arts and/or Humanities

ENG 410 Elements of Writing-Multilingual (Units: 3)
Prerequisites: Qualifying score on CMSPT and completion of ENG 214 or equivalent or ENG 215.
Review and practice of critical reading, writing, and thinking skills necessary for academic and professional writing including source-based essays, library and internet research, and the interpretation of literature. (ABC/NC grading, CR/NC allowed)

ENG 411 Literature and Composition - Multilingual (Units: 3)
Prerequisites: Qualifying score on the SFSU CMSPT and completion of ENG 214 or equivalent or ENG 215.
Advanced composition based on critical reading of literature. (ABC/NC grading, CR/NC allowed)

ENG 414 Elements of Writing (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of CR or C- or higher. Undergraduate students must have taken JEPET before enrolling in this course.
Extensive upper division practice in composing well-developed prose and arguments. Emphasis on strategic use of writing processes, rhetorical awareness of audience and purpose, critical reading of complex texts, advanced research strategies, and strong use of evidence. Satisfies the university, not major, GWAR requirement only, if a student is unable to take a GWAR course in the major. (ABC/NC grading; CR/NC allowed)

ENG 415 Grammar and Editing - Multilingual (Units: 3)
Prerequisite: ENG 214 or equivalent.
Development and practice in revising, editing, and citation strategies for multilingual students in any major. Individualized editing plans focusing on grammatical accuracy, stylistic appropriateness, sentence complexity, and features relevant to major courses with an emphasis on writing.
ENG 417 Academic Literacy and the Urban Adolescent (Units: 3)
Prerequisites: Restricted to English majors; ENG 214 or equivalent.
Service Learning, focusing on the acquisition of academic literacy by
urban teens; requires 25 hours volunteering in middle or high school
classrooms. Partly satisfies Early Field Experience requirement for Single
Subject Credential Program. [CSL may be available]
Course Attributes:
• Social Justice

ENG 418 Grammar for Writers (Units: 3)
Prerequisite: ENG 114 or equivalent
Focus on students’ proofreading, editing, and revising their writing for
academic courses. Analyze samples of writing in their disciplines to
define and develop effective sentences and paragraphs. Open to all
majors.
Course Attributes:
• UD-C: Arts and/or Humanities

ENG 419 Advanced Composition for Teachers (Units: 3)
Prerequisites: English majors; ENG 214 or equivalent.
The composing process: purpose, audience, types of discourse, rhetorical
strategies, syntactic structures, response groups. Partly satisfies Early
Field Experience requirement for Single Subject Credential. Service
Learning requires 20 hours tutoring in secondary Language Arts classes.
[CSL may be available]
ENG 420 Introduction to the Study of Language (Units: 3)
Prerequisite: ENG 114 or equivalent.
Linguistic investigation of sounds, words, sentences, conversations.
Relationships between language, culture, dialects, mind, animal
communication examined. Recommended as first language structure
course.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

ENG 421 SYNTAX (Units: 3)
Prerequisites: Upper division standing or ENG 420; priority to English
majors, minors, and MA TESOL and Linguistics students.
Introduction to contemporary syntactic theory and fundamentals of
linguistic data analysis.

ENG 422 History of the English Language (Units: 3)
Prerequisite: Upper division standing or ENG 420.
The background, sources, and development of English; examinations of
writing of historical periods of the language.

ENG 423 Language Analysis for Language Teachers (Units: 3)
Prerequisite: Upper division standing or ENG 420.
Introduction to English language structures and common English learner
errors. Analysis of form, meaning and use in spoken and written texts,
including academic genres. Focus on understanding cross-linguistic
influences and strategies for responding to learner challenges in
grammar and pronunciation.

ENG 424 Phonology and Morphology (Units: 3)
Prerequisites: Upper division standing or ENG 420; priority to English
majors, minors, MA Linguistics, and TESOL students.
Theories and techniques of phonological and morphological analysis
using data from English and other languages.

ENG 425 Language in Context (Units: 3)
Prerequisites: Upper division standing or ENG 420; priority to English
majors, minors, MA Linguistics, and TESOL students.
Introduction to language variation relating to age, ethnicity, gender,
region, class, occupation; language and culture; multilingualism. [CSL
may be available]

ENG 426 Second Language Acquisition (Units: 3)
Prerequisites: Upper division standing; concurrent enrollment in a foreign
language required.
Survey of research and issues in second language acquisition. Required
for entrance into M.A. TESOL program. Recommended for ESL/EFL and
foreign language teachers and credential candidates.

ENG 429 Stylistics (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Analysis of syntax, diction, and other devices that contribute to what we
call literary "style" in a variety of 19th and 20th century works of fiction
and non-fiction.

ENG 432 Seminar in Immigrant Literacies and Community-Based Projects
(Units: 3)
Prerequisites for ENG 832: ENG 425, ENG426, or consent of instructor.
Prerequisites for ENG 432: GWAR course, ENG 425, ENG 426; or consent
of instructor.
Exploration of language and literacies in everyday contexts in which
immigrants participate (e.g., health, work).
(ENG 832/ENG 432 is a paired course offering. Students who complete
the course at one level may not repeat the course at the other level.)

ENG 433 Introduction to Phonetics (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Practical skills in phonetic analysis, scientifically describe sound systems
of the world’s languages.

ENG 451 Jewish Literature of the Americas (Units: 3)
Prerequisite: ENG 214 or equivalent.
Explores literature of the Americas through the lens of Jewish identity
and tradition. Texts in translation from Latin America, Canada, and the US
reveal how Jewish writers have rethought modernity’s intersection with
Jewish traditions.
(This course is offered as JS 451, CWL 451, and ENG 451. Students may
not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
ENG 452 Forster, Durrell, and Cavafy (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of English novelists and travel writers E. M. Forster and Lawrence Durrell and of their connection to Alexandrian poet C. P. Cavafy. Discussion includes their collective interest in Alexandria as an alternative literary and ideological topos. (This course is offered as MGS 452, CWL 452, and ENG 452. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

ENG 460 Literature in English I: Beginnings through the 17th Century (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Introduction to the history and aesthetics of influential Old English, Middle English, sixteenth- and seventeenth-century texts written in England and America.

ENG 461 Literature in English II: 18th and 19th Centuries (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Introduction to the history and aesthetics of influential eighteenth- and nineteenth-century texts written in England and America.

ENG 462 Literature in English III: The Twentieth Century (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Survey of key texts, debates, and literary historical landmarks in the study of twentieth-century literature in English.

ENG 465 Post-Apocalyptic Science Fiction (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Examination of how post-apocalyptic narratives in mid to late 20th century science fiction reflect cultural anxieties, explore ethical dilemmas, and propose a variety of dystopian and utopian solutions to the threat of rapid social, political, and environmental change.

Course Attributes:
- UD-C: Arts and/or Humanities
- Environmental Sustainability

ENG 475 Fundamentals of Literary Analysis (Units: 3)
Prerequisite: ENG 214 or equivalent.
Training in close reading and the conventions of literary analysis. Investigates multiple genres and teaches students to interpret works through literary elements. Particularly suitable for prospective teachers and Liberal Studies majors.

ENG 480GW Junior Seminar - GWAR (Units: 3)
Prerequisites: Restricted to English major and minor; ENG 214 or equivalent with a grade of C or better. (English major must complete ENG 480GW before the end of the junior year.)
Practical criticism; techniques in the art of reading literature and writing about it in a series of short papers. Majors must complete this course before the end of the junior year. (ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

ENG 495 Digital Humanities and Literacies (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to topics, issues, practices, and tools to develop a critical engagement with digital culture, with special focus on reading, writing, and understanding literature in the digital age.

ENG 501 Age of Chaucer (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Fourteenth century English literature. Major writers of the period.

Course Attributes:
- UD-C: Arts and/or Humanities

ENG 503 Studies in Medieval Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Rotating course on a specific topic, theme, genre, work, or issue in Medieval literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 510 The Age of Wit (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Swift, Pope, Addison, and the circle of London wits and satirists of the early 18th century; the radical change in literary forms and ideas and their relationship to changes in society.

Course Attributes:
- UD-C: Arts and/or Humanities

ENG 512 18th Century British Women Writers (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to fiction, poetry, drama, and writing by a variety of authors from a key period in British women's writing. Exploration of the literary, political, and economic context of this creative flowering, as well as the forces that hampered it.

ENG 514 Age of the Romantics (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Poetry and prose of Blake, Coleridge, Byron, Wordsworth, Shelley, and Keats.

ENG 516 Age of the Victorians (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Introduction to major British poets and fiction writers of the Victorian period (1837-1900). Students will read works from the period in the context of contemporary historical movements and be introduced to the prominent critical approaches to Victorian literature.

ENG 521 Studies in 20th Century English Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Rotating course on a specific topic, theme, genre, work, or issue in 20th c. English literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 522 Irish Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Major writers who emerged in Ireland at the turn of the 20th century. Lady Gregory, Yeats, Synge, and Joyce. The Irish literary revival in the context of social, political, and literary history.
ENG 524 Contemporary American Short Story (Units: 3)
Prerequisites: ENG 214 or equivalent or consent of instructor.
Survey of American short story writers since 1945, with selections by such authors as Shirley Jackson, Grace Paley, Flannery O'Connor, Saul Bellow, James Baldwin, John Cheever, Ann Beattie, Tobias Wolff, Raymond Carver, Sandra Cisneros, Sherman Alexie, et al.

ENG 525 Studies in American Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Rotating course on a specific topic, theme, genre, work, or issue in American literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 526 Age of the American Renaissance: 1830-1860 (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Achievement of a national literature in the works of such writers as Ralph Waldo Emerson, Henry David Thoreau, Walt Whitman, Nathaniel Hawthorne, Herman Melville, and Frederick Douglass, with reading of earlier authors.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

ENG 527 American Literature: 1860-1914 (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Major American writing from romanticism to realism and naturalism: Walt Whitman, Emily Dickinson, Mark Twain, Henry James, Stephen Crane, Kate Chopin, Henry Adams, Edwin Arlington Robinson, Edith Wharton, and Theodore Dreiser.

ENG 528 American Literature: 1914-1960 (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

ENG 533 Holocaust and Literature (Units: 3)
Prerequisite: ENG 214.
Fiction and non-fiction Holocaust literature by Saul Bellow, T. Borowski, Etty Hillesum, I.B. Singer, and Elie Wiesel.
(This course is offered as JS 437, ENG 533, and CWL 437. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

ENG 535 Literature and Ecology (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Course Attributes:
- UD-C: Arts and/or Humanities
- Environmental Sustainability

ENG 546 20th Century American Jewish Women Writers (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration through novels, short fiction, and memoir the connections American women forge and the tensions they experience via encounters with self, family, Judaism, American society, and world history. (This course is offered as JS 546, ENG 546, and WGS 546. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives

ENG 550 The Rise of the Novel (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Emergence of the English novel in the work of such writers as Defoe, Richardson, Fielding, Sterne, Smollett; the relationship of the new genre to changes in social and philosophical experience.

ENG 552 Modern British Novel (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Developments in the novel from George Meredith to the present: Conrad, Hardy, Forster, Lawrence, Joyce, Woolf, Waugh, and Amis.

ENG 553 Classic American Novel (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Major novelists from Brown and Cooper through Twain, Howells, James, Wharton, Stephen Crane, and Dreiser—including Chopin, Davis, local colorists, Johnson, and Douglas.

ENG 554 Modern American Novel (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Major novelists from Dreiser through Fitzgerald, Hemingway, and Faulkner to the present.

ENG 555 The Short Story (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Short story as a distinctive literary phenomenon. Historical consideration; critical analysis of representative modern stories.

ENG 558 Early Twentieth Century Poetry in the United States (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Development of modernism during the first half of the 20th century; the tension between the poets’ experimentalism and their relation to tradition.

ENG 559 Middle and Late Twentieth Century Poetry in the United States (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Development of poetry during the second half of the 20th century; poets’ reactions against and development of modernist themes and techniques.
ENG 565 The Short Story: Global Literature in English (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

The short story as a distinctive literary phenomenon of global literature in English, examined in relation to cultural perspectives and literary-historical traditions.

Course Attributes:
- Global Perspectives

ENG 570 Medieval and Renaissance Drama (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Development of dramatic literature in England from the emergence of the mystery and morality plays through the reign of Elizabeth.

ENG 571 Shakespeare's Rivals (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Close study of the drama of Shakespeare's contemporaries and immediate successors. Class will combine modes of literary analysis with theatrically-informed approaches.

Course Attributes:
- E1: Lifelong Learning Develop

ENG 573 American Drama (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

American drama from the beginnings to the present time.

ENG 574 Modern British Drama (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Representative realistic and non-realistic English drama from Shaw to the present time.

ENG 580 Individual Authors (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Rotating course on a specific author, or group of authors, in British, American, or Global literatures of any period. Topic to be specified in the Class Schedule. May be repeated for credit when topics vary.

ENG 581 Jane Austen (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Lecture/discussion course on the complete works of Jane Austen.

Course Attributes:
- UD-C: Arts and/or Humanities

ENG 583 Shakespeare: Representative Plays (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Shakespeare and his age; his development as a dramatist and his literary, intellectual, and social milieu. Reading of representative comedies, histories, and tragedies as well as some non-dramatic poetry.

Course Attributes:
- E1: Lifelong Learning Develop

ENG 584 Shakespeare: Selected Plays (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Study of a few plays in relation to the textual problems, dramatic technique, and problems of interpretation. Analysis of language, imagery, and structure.

ENG 589 Milton (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

In-depth study of Milton's prose and poetry; examination of technique, language, imagery, and interpretation.

ENG 600 Theory of Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Analysis of literature as symbolic action; the recurring motives and concepts which figure in formal appeals; the relationship between literature and rhetoric; the tactics and grounds of persuasion in literature.

ENG 601 Literature and Psychology (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Selected fiction and drama which reflect the artist's perception of human motivation and behavior. Application of theories of personality to the writer's art.

Course Attributes:
- UD-C: Arts and/or Humanities

ENG 602 Literature and Society (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Selected novels and drama which primarily reflect the social scene. Cultural changes as they affect the writer, his delineation of character and his perspective on society.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

ENG 606 History of Criticism from the Eighteenth Century to the Present (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

A survey class of major trends in the history of literary criticism from the 18th century to the present.

ENG 611 Modern Criticism (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Examination of critical approaches including the formalist and the psychoanalytic. Application of one or more critical methods to works of imaginative literature.

ENG 612 Serial Narrative (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Serial narrative from its eighteenth-century roots to today, considering the novel, cinema, and television.

ENG 614 Women in Literature: Authors and Characters (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Rotating course on a specific topic, theme, or issue focused on literature and/or criticism by women writers of any period. Topic to be specified in Class Schedule. May be repeated when topics vary.
ENG 615 Imagery, Metaphor, and Symbol (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Relationship between symbolic process and organic form in literature. Symbolism as meta-language. Controlled patterning, tonal modulation, shadow structure, and mythic resonance.

Course Attributes:

- UD-C: Arts and/or Humanities

ENG 620 Introduction to Computational Linguistics (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to linguistic analysis of digital texts. Students learn to write programs in Python and to process raw texts (tokenization), discover statistical patterns in linguistic data (frequency distribution), perform part-of-speech tagging, text segmentation, and classification.

ENG 630 Selected Studies (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Rotating course on a specific topic, theme, genre, or issue in literature from a variety of national traditions and/or historical periods. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 631 Post-Colonial Literature in English (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Contemporary literature in English by writers from former Third World colonies.

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

ENG 632 The Literature of Exile and Migration (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Investigation of literary texts that narrate experience of exile, migration, and immigration, and consideration of theoretical contexts about diaspora, exile, and transnational movement.

ENG 633 Gay Love in Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Themes of gay love in fiction, poetry, and biography, beginning with Ancient Greece and extending to the present. (This course is offered as ENG 633 and SXS 633. Students may not repeat the course under an alternate prefix.)

ENG 636 Greek and Roman Myth and Modern Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Contemporary writers of fiction, poetry, and drama who use subjects and themes from classical Greek and Roman mythology.

ENG 637 Experimental Novel: 1950-1980 (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Survey of experimental novels from North and South America merging between 1950-1980, and changing how we view extended narratives. (This course is offered as ENG 637 and EThS 637. Students may not repeat the course under an alternate prefix.)

ENG 638 Global Cities (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Study of Anglophone literature from the twentieth century to the present from cities around the world. Examination of the concept of "the city" with emphasis on cross-cultural issues of globalization, gentrification, and migration.

ENG 653 TESOL: Pedagogical Grammar (Units: 3)
Prerequisites: Restricted to upper division English major, minor, MA Linguistics and TESOL student; ENG 421.

English grammar for prospective or practicing teachers of English to speakers of other languages.

ENG 655 Literature and the Adolescent Reader (Units: 3)
Prerequisite: ENG 114 or equivalent.

Analysis and evaluation of literature about and for adolescents. Teaching approach based on reader response theory. Required for students completing the Single Subject Waiver in English.

Course Attributes:

- Am. Ethnic & Racial Minorities

ENG 658 South African Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Investigation of the rich traditions of literature in English from South Africa since 1948. Multiple genres with various historical, theoretical and aesthetic contexts.

ENG 670 Writing for Graduate Studies in the Liberal and Creative Arts (Units: 3)
Prerequisites: Graduate standing, or application in progress, or consent of instructor. Registration priority will be given to students enrolled in graduate programs in the College of Liberal and Creative Arts.

Development of writing skills for graduate work in the Liberal and Creative Arts, focusing on the kinds of writing needed in these disciplines. May not be used for master's degree ATC requirements.

ENG 680 Applied Computational Linguistics (Units: 3)
Prerequisite: ENG 620 or consent of instructor.

Writing python programs for the analysis of sentence structure (context-free grammars, dependency grammars), extracting meaning from texts, and to apply various machine learning methods to data mining.

ENG 688 Assessment in English Language Arts (Unit: 1)
Prerequisites: Senior standing and interview with English Single Subject Credential adviser.

Creation of an English Education e-Portfolio to demonstrate mastery of subject matter competency in English.

ENG 690 Senior Seminar (Units: 3)
Prerequisites: ENG 480GW with a grade of C or better, priority to English literature and English education majors in their senior year, or consent of instructor.

Rotating course on a specific topic, theme, literary form, historical period, or theoretical tradition in British, American, or Global literatures. Topic to be specified in Class Schedule. Intensive study of a literary topic culminating in a research paper. May be repeated when topics vary.
ENG 698 Work-Study in Language and Literature (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Supervised community, university, or departmental service which relates to the English major or individual English courses, includes tutoring and teaching, evaluation of curricula, service on departmental committees. May be repeated.

ENG 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Individual supervision of intensive, independent work, largely of a research nature, culminating in a paper. Completion of appropriate graduate introductory course and/or permission of the graduate major adviser is prerequisite to enrollment in other graduate courses in English.

ENG 700 Introduction to Composition Theory (Units: 3)
Prerequisite: Admission to MA Composition Program or to Composition or Post-Secondary Reading Certificate Program.
Issues of composition theory, research, and classroom practice. (Plus-minus letter grade only)

ENG 701 Theoretical Backgrounds in Community College and College Reading Instruction (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Review of research on the physiological, psychological, and linguistic processes involved in developing literacy skills on the community college and college levels; examination of the relationships between reading and writing competencies, and reading and reasoning strategies.

ENG 704 Pedagogical Grammar for Composition (Units: 3)
Prerequisite: Admission to MA Composition Program or to Composition or Post-Secondary Reading Certificate Program.
Theory and practice of responding to linguistic, stylistic, and rhetorical issues in student writing. (Plus-minus letter grade only)

ENG 706 Seminar in Sociolinguistics of Composition (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
The sociolinguistics of written communication: differences between oral and written speech; effects of differences on learning writing; functions of writing in context; writer/reader interactions; nature and function of discourse communities.

ENG 707 Current Issues in Composition (Units: 3)
Prerequisite: Graduate standing or consent of instructor,
Composition for teachers, high school or college. Theory, research, and innovative practices in teaching writing. Invention, shaping, crafting, revising, evaluating, skills building, sequencing assignments.

ENG 708 Teaching Writing in a Digital Age (Units: 3)
Prerequisite: Admission to MA Composition Program or to Composition or Post-Secondary Reading Certificate Program, or consent of instructor.
Introduction to the uses of digital technology for teaching and learning in college composition courses for graduate students in the Composition MA and certificate programs. Focus is on the impact of emerging technologies on both writing and instruction.

ENG 709 Seminar in Teaching Integrated Reading and Writing (Units: 3)
Prerequisite: Admission to MA Composition Program or to Composition or Post-Secondary Reading Certificate Program.
Exploration of the integration of reading and writing from both a theoretical and pedagogical perspective.

ENG 710 Course Design in Composition and Post-Secondary Reading (Units: 3)
Prerequisites: Admission to MA Composition Program or to Composition or Post-Secondary Reading Certificate Program; ENG 704 or ENG 709 with a grade of B or better.
Theory and practice of designing post-secondary and composition courses.

ENG 713 Seminar in Curriculum and Instruction in English I (Units: 3)
Prerequisite: Completion of subject matter certification in English or consent of instructor.
Theory, curriculum design, instruction and assessment methods for teaching English language, literature, and oral and written performance, grades 6-12.

ENG 714 Curriculum and Instruction II: English (Units: 3)
Prerequisites: ENG 713, Subject Matter Competency certification in English, concurrent enrollment in student teaching.
Applied theory, curriculum design, instruction, and assessment methods for teaching English language, literature, oral and written performance; grades 6-12. (AB/NC grading only)

ENG 715 Pedagogy and Practice of Postsecondary Reading (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theory-into-practice course in which students develop lesson plans for teaching basic literacy skills. Requires 2 hours of tutoring per week in the English Tutoring Center of IRW students.

ENG 717 Projects in the Teaching of Literature (Units: 3)
Prerequisite: Graduate standing or consent of instructor,
Literary theory and its practical application in the college classroom. Practice in applying various critical approaches to literary texts and in designing plans for teaching the various genres.

ENG 718 Supervision of Teaching Experience (Units: 3)
Prerequisite: Teaching assignment in college-level composition course.
Supervision and training in curriculum, teaching techniques, grading procedures, etc.

ENG 719 Seminar: Contemporary Semantic Theory (Units: 3)
Prerequisites: Graduate standing or consent of instructor; ENG 421.
Introduces tools used to investigate semantic structure (the interpretation of linguistic expressions); develops logical representations for English sentences; investigates entailments and presuppositions at word level (lexical semantics) and discourse level (pragmatics).

ENG 721 Advanced Pedagogical Grammar for TESOL (Units: 3)
Prerequisite: ENG 421 or equivalent.
Advanced study in grammar teaching for ESL and EFL contexts. Includes a review of grammatical structures and functions, and common language learner errors. Focus on pedagogical theory applied to error analysis, deductive and inductive teaching approaches, pedagogical tasks, and corrective feedback.

ENG 723 Seminar in the Structure of English (Units: 3)
Prerequisite: ENG 421 or consent of instructor.
Advanced study in the semantic and discourse-pragmatic structure of English from the perspective of cognitive linguistics. Research projects required.
ENG 724 Special Topics in Teaching English to Speakers of Other Languages (Units: 3)
Prerequisite: ENG 730 or consent of instructor.
Introduction to theory, research and pedagogical innovations in key areas of Teaching English to Speakers of Other Languages, including applications to materials design, lesson planning, and assessment. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 725 Seminar in Discourse Analysis (Units: 3)
Prerequisites: ENG 421, ENG 424, ENG 425; priority to MA Linguistics and TESOL students.
Theories and methods of discourse analysis. Students analyze texts and conversations using the various methods and submit a final project analyzing original data in the framework of their choice.

ENG 726 Practicum in Teaching English to Speakers of Other Languages (Units: 3)
Prerequisite: ENG 730 (may be taken concurrently).
Through assignment as an apprentice and tutor, TESOL students gain experience with methods, materials, and procedures for teaching non-native speakers of English.

ENG 727 Linguistic Field Methods (Units: 3)
Prerequisites: ENG 421, ENG 424, ENG 425; priority to MA Linguistic and TESOL student.
Introduction to basic documentary linguistics and linguistic fieldwork through the elicitation and analysis of data from an unfamiliar language; discussion of research ethics and project logistics.

ENG 728 Topics in Sociolinguistics (Units: 3)
Prerequisites: ENG 421, ENG 424, ENG 425; priority to MA Linguistic and TESOL students.
Exploration of current topics in sociolinguistics; focus on working with linguistic data to develop methodological and analytic skills necessary to conduct research. Topics to be specified in Class Schedule. May be repeated when topics vary.

ENG 729 Seminar in Psycholinguistics (Units: 3)
Prerequisite: ENG 730 or consent of instructor.
First language studies and issues in second language acquisition: theory, methodology, educational implications, age differences, affective and social factors, error, contrastive, and discourse analysis.

ENG 730 Introduction to Graduate Study of TESOL (Units: 3)
Prerequisites: MA TESOL student; completion of Level One Writing Proficiency requirement; ENG 425, ENG 426, or equivalents.
Contemporary theories, approaches, theories, and practical procedures in teaching English as a second or foreign language. Principles and current practices in curriculum development, lesson design, skill development, classroom management, and assessment.

ENG 731 Seminar: TESOL Listening and Speaking Skills (Units: 3)
Prerequisites: ENG 421, ENG 424, ENG 730.
Theories, research, objectives, problems, and techniques in the teaching of English to speakers of other languages; listening and speaking skills; systematic study of materials and methods of instruction; preparation of teaching materials.

ENG 732 Seminar: TESOL Reading and Writing Skills (Units: 3)
Prerequisite: ENG 730.
The teaching of reading and writing skills to adult non-native speakers of English. Theory and research in ESL/EFL reading and composition, curriculum and lesson planning, teaching techniques and activities, materials selection and development, responding to student work, and assessment.

ENG 733 Seminar: Student Teaching for TESOL (Units: 3)
Prerequisites: ENG 731, ENG 732.
Teaching experience with a faculty supervisor who meets with the student teachers both individually and in groups, observes them, and reads and responds to four written papers. (CR/NC grading only)

ENG 734 TESOL Curriculum and Assessment (Units: 3)
Prerequisites: ENG 730, ENG 731, ENG 732, or consent of instructor.
MA TESOL students develop an original curriculum and assessment procedure for a specific learning context. Assigned readings cover theoretical and practical issues in syllabus design, materials development, and language assessment.

ENG 735 Community Based Curriculum Development (Units: 3)
Prerequisite: ESL or literacy teaching experience.
On-line course aimed at adult and family educators who teach English language and literacy to non-native speakers. Participants develop materials for classrooms where learners master language while reflecting on their lives.

ENG 736 Seminar in Teaching ESL in the Community (Units: 3)
Prerequisite: ENG 730 or consent of instructor.
Current objectives, problems, and techniques teaching ESL to adult immigrants in the community. Study of needs assessment, curricula, materials, and various methodologies to teach adults.

ENG 737 Introduction to Corpus Linguistics (Units: 3)
Prerequisite: ENG 421.
Introduction to corpus linguistics and its application to issues such as language description, language variation, and language teaching; corpus-based research methods.

ENG 738 Pragmatics and Oral Skills (Units: 3)
Prerequisites: ENG 425, ENG 730.
Pragmatics research and methods for teaching social interaction skills for TESOL; application of materials appropriate to specific cultural and educational contexts.

ENG 739 Advanced Field Methods (Units: 3)
Prerequisites: ENG 421, ENG 424, ENG 725, proficiency in Spanish, consent of instructor.
A hands-on field seminar in documentary linguistics that is taught as a 3-week summer abroad program in Oaxaca, Mexico.

ENG 741 Seminar: Literary Theory and Research Methods (Units: 3)
Prerequisite: Classified graduate status in English literature master’s degree program or consent of instructor.
Practice in the theory, criticism, and research methods of literary study, leading to a major research project.
ENG 742 Seminar: Studies in Criticism (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of specific topic, critic or group of critics, and/or tradition in literary criticism. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 743 Seminar: Studies in Principles of Literary Form (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of principles of one or more literary forms. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 744 Seminar: Literature and Psychology (Units: 3)
Prerequisite: ENG 741 (may be taken currently) or consent of instructor.
Contributions of depth psychology to the understanding of selected works of literature.

ENG 746 Seminar: Opera and Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Literary aspects of the creation, composition, production, and interpretation of opera. Literary texts that inspire operas will be interpreted critically along with the operas they inspired. Opera librettos will be examined as literature interactively with opera's musical, dramatic, and performative elements. (This course is offered as ENG 746 and CWL 746. Students may not repeat the course under an alternate prefix.)

ENG 747 Feminist Criticisms (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Diverse feminist theoretical and critical approaches in social contexts; canons; female aesthetics; social, linguistic, and psychoanalytic approaches. (This course is offered as WGS 747 and ENG 747. Students may not repeat the course under an alternate prefix.)

ENG 748 Rhetoric, Politics, and Ethics of Deconstruction (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
An exploration of the rhetoric, politics, and the ethics of deconstruction in selected works by Derrida, De Man, Lacoue-Labarthe, Nancy, and Blanchot.

ENG 750 Seminar in Medieval English Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in medieval English literature. Topics to be specified in Class Schedule. May be repeated as topics vary.

ENG 751 Seminar: Studies in 16th Century English Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in 16th c. English literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 752 Seminar: Studies in 17th Century English Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in 17th c. English literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 753 Seminar: Studies in 18th Century English Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in English literature of the long 18th c. (1660-1800). Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 754 Seminar: The Romantic Movement (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Ideas, themes, or literary problems in the works of such late eighteenth and early nineteenth century authors as Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

ENG 755 Seminar: Studies in Victorian Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in English literature of the Victorian period. Topic to be specified in Class Schedule. May be repeated as topics vary.

ENG 756 Seminar: 20th Century English Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in 20th c. English literature. Topic to be specified in Class Schedule. May be repeated as topics vary.

ENG 757 Shakespeare History Plays (Units: 3)
Prerequisite: ENG 741 or consent of instructor.
In-depth study of selected Shakespeare history plays, pairing close-reading of the plays with extensive reading of primary and secondary sources on the histories of English sovereignty, political controversies, property, and the development of "history.”

ENG 758 Seminar: Southern African Literature in English (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Study of Southern African literature in English from 1950 to the present with accompanying historical and theoretical texts. Writers from South Africa, Zimbabwe, and Botswana include Mphalele, Gordimer, Coetzee, Head, Ndebele, Marechera. Emphasis on "postcolonial” issues and dismantling of apartheid.

ENG 760 Seminar: Studies in American Literature, 1600-1899 (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in American literature written between 1600-1899. Topic to be specified in Class Schedule. May be repeated as topics vary.

ENG 762 Seminar: Twentieth Century American Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.
Examination of topics in 20th-c. American literature. Topics to be specified in Class Schedule. May be repeated when topics vary.
ENG 763 Contemporary American Short Fiction (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Advanced study of the major fiction writers, post-World War II era to the present. The contemporary short story in the United States.

ENG 770 Seminar: the Novel (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

A major literary problem in the genre.

ENG 772 Seminar: Drama (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Investigation of post-World War II British and American dramaturgy.

ENG 776 Studies in Caribbean Literature in English (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Examination of primarily Anglophone Caribbean literature from the nineteenth century to the present day. Genres covered range from the slave narrative and the novel to epic and performance poetry.

ENG 780 Seminar: Individual Authors (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Examination of literary works written by an individual author or group of authors. Author to be specified in Class Schedule. May be repeated when author varies.

ENG 782 Seminar: Chaucer (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Selected works: examination of sources, textual problems, rhetorical techniques, language, and the cultural background.

ENG 785 Seminar: Shakespeare (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Representative plays: examination of textual problems, dramatic technique, language, imagery and interpretation.

ENG 789 Milton (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

In-depth study of Milton's prose and poetry; examination of technique, language, imagery and interpretation.

ENG 790 Seminar: Selected Studies (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Examination of topics in British, American, or Global literatures, and/or literary theory. Topic to be specified in Class Schedule. May be repeated when topics vary.

ENG 800 Rhetoric for Composition Teachers (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Introduction to the history of rhetoric and rhetorical theory as it pertains to college writing instruction. Focus on relationships among rhetoric, writing, and writing instruction.

ENG 802 Internship Teaching English (Units: 3)
Prerequisites: Senior or graduate standing in English, consent of instructor, and interview.

Teaching internship offering intensive training, classroom experience, and community service for students considering teaching in community colleges or community outreach programs such as prison education. May be repeated once for credit.

ENG 803 Teaching Practicum: Literature (Units: 3)
Prerequisites: By application only; contact English Department or see English Department website for details.

Pedagogical issues in the teaching of literature by assisting professors in conducting large lecture courses. May be repeated for a total of 6 units.

ENG 804 Teaching Practicum: Linguistics (Units: 3)
Prerequisites: By application only; contact English Department or see English Department website for details.

Pedagogical issues in teaching linguistics through assisting professors in conducting large linguistic courses. Teaching workshops include pedagogical techniques, syllabus construction, responding to student questions, and fostering student participation.

ENG 820 The Constructed Body in Literature (Units: 3)
Prerequisite: ENG 741 (may be taken concurrently) or consent of instructor.

Advanced seminar in how British and American cultures have represented the construction of bodies.

ENG 832 Seminar in Immigrant Literacies and Community-Based Projects (Units: 3)
Prerequisites for ENG 832: ENG 425, ENG426, or consent of instructor.
Prerequisites for ENG 432: GWAR course, ENG 425, ENG 426; or consent of instructor.

Exploration of language and literacies in everyday contexts in which immigrants participate (e.g., health, work). (ENG 832/ENG 432 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ENG 889 Integrated Studies in Linguistics (Units: 3)
Prerequisite: Graduate standing.

Integration of theoretical and practical material acquired in the Linguistic M.A. program, providing students support and guidance for culminating research projects, and direction in professional development, including preparing for conferences/publication, and applying to Ph.D. programs. (CR/NC grading only)

ENG 890 Seminar in Composition Research (Units: 3)
Prerequisites: Admission to MA Composition Program or to Composition or Post-Secondary Reading Certificate Program, ENG 700 with a grade of B or better.

Research methods in composition.

ENG 891 Integrative Seminar in Teaching English to Speakers of Other Languages (Units: 3)
Prerequisite: Final semester in M.A. program.

Major issues in teaching English to speakers of other languages. For Master of Arts candidates in English with Concentration in Teaching English to Speakers of Other Languages. (CR/NC grading only)
ENG 895 Field Study or Applied Research Project (Units: 3)
Prerequisites: Consent of instructor, adviser, department chair, and committee, approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Field study or research project incorporating application of knowledge and techniques acquired in the student’s program of study. (CR/NC grading only)

ENG 896 Directed Readings in Preparation for the CE Examination (Units: 3)
Prerequisites: Approved ATC and Culminating Experience Proposal, English major, not open to students selecting the thesis option (ENG 898).

Directed reading developed in consultation with the student’s examination committee in English. (CR/NC/RP grading option)

ENG 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 898, or 998, (or in some cases, courses numbered 890 - see program’s graduate advisor for further information). (CR/NC, RP)

ENG 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor; recommendation of major adviser; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

ENG 899 Independent Study (Units: 1-3)
Prerequisites: Consent of graduate coordinator and supervising faculty member. Enrollment by petition and limited to graduate students in the program.

Individual research into an issue emphasizing language and/or literature. May be repeated for a total of 6 units.
Environmental Studies (ENVS)

ENVS 224 Research Methods for Environmental Studies (Units: 4)
Prerequisite: Restricted to Environmental Studies majors or consent of instructor.

Introduction to quantitative and qualitative research methods in environmental studies. Scientific method, field methods in natural and social sciences, and data analysis including descriptive statistics, and hypothesis testing. Lecture, 3 units; Laboratory, 1 unit.

ENVS 300 Environmental Studies (Units: 3)
Prerequisite: Upper division standing or consent of instructor; priority enrollment for Environmental Studies majors.

Introduction to environmental studies; an examination of the history of the environmental movement, exploration of strategies to effect constructive change, analysis of environmental fields, and the need for their integration.

Course Attributes:

- Environmental Sustainability

ENVS 306 Economics and the Environment (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

How economic systems impact the natural environment and how the natural environment underlies the economy. Includes neoclassical and ecological economics perspectives.
(This course is offered as ENVS 306 and ECON 306. Students may not repeat the course under an alternate prefix.)

ENVS 331 Global Environmental Crisis (Units: 4)
Prerequisites: Upper division standing; ENG 214.

Describes the impact of a growing world economy and population on biological and physical earth systems, and the potential consequences of environmental destruction for human well-being. Explores the historical and economic reasons for the political divide between developed and less-developed countries with respect to environmental issues and negotiations.
(This course is offered as IR 331 and ENVS 331. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- Environmental Sustainability
- Global Perspectives
- Social Justice

ENVS 450GW Environmental Law and Policy - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better, ENVS 300; or consent of instructor.

Introduction and overview of environmental policies and the legal system at the national and international level through directed readings, class discussion, and research in the field of environmental law and policy.
(ABC/NC grading only.)

Course Attributes:

- Graduation Writing Assessment

ENVS 460 Energy Justice and Sustainability (Units: 3)
Prerequisite: Upper division standing or consent of instructor

Interdisciplinary social scientific exploration of energy focusing on environmental justice, sustainability, and political economic perspectives. Topics include environmental impacts of energy systems and resources, social movements for sustainable energy transitions, and intersections of energy systems with inequalities in race, class, and gender.

ENVS 470 Climate Politics and Policy (Units: 3)
Prerequisite: ENVS 300 or consent of instructor.

Domestic and international politics surrounding both climate change and the requirements of climate policy in the context of a global society dedicated to economic growth and characterized by sharp divisions between rich and poor.

Course Attributes:

- Environmental Sustainability
- Global Perspectives

ENVS 530 Environmental Leadership and Organizing (Units: 3)
Prerequisite: ENVS 300 or consent of instructor.

Theoretical and applied study of leadership and organizing for the environment and environmental justice. Multidisciplinary exploration of social change and democratic action. Topics include gender and race sensitive leadership, alternative approaches for civic engagement, organizing strategy and tactics, advocacy ethics and current challenges facing the environmental movement.

ENVS 570 Applied Local Sustainability (Units: 3)
Prerequisite: ENVS 300 or consent of instructor.

Examination of current sustainability issues and efforts at San Francisco State University, local cities and other institutions across the country. Includes hands-on sustainability research on campus.

Course Attributes:

- Environmental Sustainability

ENVS 600 Environmental Problems and Solutions (Units: 3)
Prerequisite: ENG 214 or equivalent.

Ecological approach to nature and the landscape. Human populations, natural resources, and environmental quality in California with particular reference to the San Francisco Bay Area.
(This course is offered as GEOG 600 and ENVS 600. Students may not repeat the course under an alternate prefix.)

Course Attributes:

- UD-D: Social Sciences
- Environmental Sustainability
- Global Perspectives
ENVS 640 Recreational Use of National Parks and Protected Areas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to concepts of conservation and preservation of national parks and other ecosystem units, and managing visitor use. Emphasis on history, management principles, and current issues. National parks will be the primary focus, selected international protected areas will be included. [CSL may be available]
(This course is offered as RPT 640 and ENVS 640. Students may not repeat the course under an alternate prefix.)

ENVS 657 Natural Resource Management: Biotic Resources (Units: 4)
Prerequisites: GEOG 181, GEOG 205 or ENVS 224, or consent of instructor.

Basic theories and methodologies of managing forest, wildlife and rangeland resources. Agencies, laws, and policies that govern natural resource management. Emphasis on the urban-wildland interface. Lecture, 3 units; laboratory, 1 unit.
(This course is offered as GEOG 657 and ENVS 657. Students may not repeat the course under an alternate prefix.)

ENVS 680 Environmental Studies Internship (Units: 1-3)
Prerequisites: Upper division standing; ENVS 300; consent of instructor.

Fieldwork in approved public, private, non-profit, environmental organizations, government and non-government agency or local corporation under supervision of organization and faculty coordinator. May be repeated for credit on advisement. [CSL may be available]

ENVS 690 Senior Seminar in Environmental Studies (Units: 3)
Prerequisites: Restricted to Environmental Studies majors with senior standing, completion of core courses.

Integration and application of major concentration in Environmental Studies. Trends in Environmental Studies. Group projects working with the community to assist in problem solving or activism; job evaluation. (Plus-minus letter grade only.)

ENVS 699 Independent Study (Units: 1-3)
Prerequisites: Upper division standing, consent of instructor, major adviser, and department chair.

Supervised study of a particular issue selected by the student. May be repeated for a total of 6 units.
**Ethnic Studies (ETHS)**

**ETHS 100 Introduction to Ethnic Studies (Units: 3)**
History, objectives, and philosophy of Ethnic Studies. Student’s personal, educational, and career development in a pluralistic society and in an institute of higher education. [CSL may be available]
(This course is offered as ETHS 100 and RRS 100. Students may not repeat the course under an alternate prefix.)

**Course Attributes:**
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**ETHS 101 First Year Experience in Ethnic Studies (Units: 3)**
Foundations of intellectual, academic, and career preparation for majors and minors in the College of Ethnic Studies.

**ETHS 102 Basic Achievement Techniques (Units: 3)**
Examination and application of basic skills development among diverse students. Use of appropriate strategies and methods to support the intellectual and spiritual advancement of the student. Concurrent enrollment in another specified course may be required. May be repeated for a total of 6 units. (ABC/NC grading; CR/NC allowed)

**ETHS 110 Critical Thinking and the Ethnic Studies Experience (Units: 3)**
Basic skills involved in understanding, criticizing, and constructing arguments by using materials reflective of experiences of ethnic/racial groups in the U.S.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

**Course Attributes:**
- A3: Critical Thinking
- Am. Ethnic & Racial Minorities

**ETHS 300GW Writing in Ethnic Studies - GWAR (Units: 3)**
Prerequisites: Asian American Studies, American Indian Studies, Africana Studies, or Latina/Latino Studies major; ENG 214, APRS 214, LTNS 214, AA S 214, or equivalents, with grades of C- or better.

Foundations of writing in the disciplines of Ethnic Studies: Africana Studies, American Indian Studies, Asian American Studies, and Latina/ Latino Studies. Draws on the behavioral and social sciences, the humanities, and the creative arts to prepare students for advanced work in Ethnic Studies, and for careers requiring breadth and depth of knowledge. (ABC/NC grading only)

**Course Attributes:**
- Graduation Writing Assessment

**ETHS 400 Islam and Fiction in English (Units: 3)**
Prerequisite: Upper division standing or consent of instructor.

Introduction to various representations of Islam in modern fiction, both in the Islamic world and beyond, focusing on the literary cultural influences portrayed in texts that address Islam and Muslims whether centrally or peripherally.
(This course is offered as ARAB 400 and ETHS 400. Students may not repeat the course under an alternate prefix.)

**ETHS 473 Unfree Labor in Early America (Units: 3)**
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
An examination and comparison of various forms of unfree labor in early America from the colonial period to the Civil War, tracing change over time and investigating the relationship among economic systems, ideology, and social relations.
(This course is offered as HIST 473, ETHS 473, and LABR 473. Students may not repeat the course under an alternate prefix.)

**ETHS 499 Culminating Experience Continuous Enrollment (Unit: 0)**

**ETHS 510 History of Arabic Literature I: Classical Arabic Literature (Units: 3)**
Prerequisite: Four semesters of lower division Arabic or equivalent or consent of instructor.

Introduction to major themes and ideas in classical Arabic literature, focusing on major poetry and prose works from the pre-Islamic and early Caliphate eras.
(This course is offered as ARAB 510 and ETHS 510. Students may not repeat the course under an alternate prefix.)

**ETHS 511 History of Arabic Literature II: Modern Arabic Literature (Units: 3)**
Prerequisite: Four semesters of lower division Arabic or equivalent or consent of instructor.

Introduction to major themes and ideas in modern and contemporary Arabic literature from various countries (e.g., Morocco, Algeria, Egypt, Syria, Sudan), focusing on major works from the late 19th century to the present.
(This course is offered as ARAB 511 and ETHS 511. Students may not repeat the course under an alternate prefix.)

**ETHS 545 Traditional Kulintang Music and Dance of the Southern Philippines (Units: 3)**
Prerequisite: Upper division standing or consent of instructor.

Music and dance of Southern Philippines, emphasis on Kulintang tradition of Mindanao and Sulu Archipelago. Lectures and hands-on workshops on dance movement and music of Kulintang culture. May be repeated for a total of 6 units.
(This course is offered as ETHS 545, DANC 545, and MUS 545. Students may not repeat the course under an alternate prefix.)

**ETHS 590 Ethnic Studies Travel Study (Units: 1-3)**
Prerequisite: Upper division standing or consent of instructor.

Sponsored group travel study to a designated location.

**ETHS 637 Experimental Novel: 1950-1980 (Units: 3)**
Prerequisite: ENG 214 or equivalent or consent of instructor.

Survey of experimental novels from North and South America merging between 1950-1980, and changing how we view extended narratives.
(This course is offered as ENG 637 and ETHS 637. Students may not repeat the course under an alternate prefix.)

**ETHS 675 Variable Topics in Ethnic Studies (Units: 3)**
Prerequisite: Upper division standing or consent of instructor.

Examination of variable issues and topics in ethnic studies. Topic to be specified in Class Schedule. May be repeated for a total of 9 units.
ETHS 685 Projects in the Teaching of Ethnic Studies (Units: 1-4)
Prerequisites: Upper division standing and consent of instructor.
Academic service learning practicum/internship experience as an undergraduate instructional aide. Participation in the teaching of a regular instructionally-related class. Limited to undergraduate students only. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

ETHS 697 Field Research or Internship in Ethnic Studies (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Development of research methodology of Third World societies in the U.S. Gathering materials through non-written sources such as artifacts, oral evidence, participation-observation. May be repeated for a total of 6 units with departmental approval. [CSL may be available]

ETHS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of adviser, instructor, and program coordinator.
Supervised individual study of a particular inter-ethnic problem in ethnic studies. May be repeated for a total of 6 units.

ETHS 700 Race and Resistance in Historical Perspective (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Relational history of people of color in the U.S., their experience in the development of society, and the contested role of race in their collective experiences. A comparative examination of organized and unorganized forms of resistance to emerge within and/or across communities to achieve racial justice and self-determination.

ETHS 710 Theories and Issues in Ethnic Studies (Units: 3)
Prerequisite: Consent of instructor.
Concepts and theories in ethnic studies. Identifies, analyzes, and critically reviews the American history and experience of people of color.

ETHS 720 Research Methods in Ethnic Studies (Units: 3)
Prerequisites: Basic course in statistics and consent of instructor.
Research methods pertaining to African Americans, Asian Americans, La Raza, and American Indians in third world critical perspective: research proposal, data collection analysis, interpretation, statistical summarization. Examples from the third world experience.

ETHS 750 Ethnic Studies Community Practicum (Units: 3)
Prerequisite: Consent of instructor.
Philosophies, strategies, and methods in community studies. Evaluation of alternatives in terms of issues facing third world communities. Internship in a community-based agency or organization. Classwork, 2 units; fieldwork, 1 unit.

ETHS 820 Advanced Research Seminar in Ethnic Studies (Units: 3)
Prerequisite: ETHS 720 or consent of instructor.
Seminar on advanced research in ethnic studies. Key elements in developing a research or creative work project.

ETHS 885 Graduate Projects in the Teaching of Ethnic Studies (Units: 3)
Prerequisites: Restricted to graduate students in Ethnic Studies and consent of instructor.
Academic service learning practicum/internship experience as an undergraduate instructional aide. Participation in the teaching of a regular instructionally related class.

ETHS 895 Field Study (Units: 3)
Prerequisites: Consent of instructor and graduate major advisor; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

ETHS 896 Directed Reading in Ethnic Studies (Units: 3)
Prerequisite: Consent of adviser.
Intensive directed reading in ethnic studies under the supervision of a faculty member.

ETHS 898 Master's Thesis (Units: 3)
Prerequisites: Advancement to Candidacy (ATC) and approval of graduate major adviser.
ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

ETHS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate coordinator and supervising faculty member.
Individual research into an issue in ethnic studies. Enrollment by petition and limited to graduate students in the program.
Finance (FIN)

FIN 303 Accounting for Financial Analysis (Units: 3)
Prerequisites: Restricted to upper division Finance majors and minors; FIN 350 with a grade of C- or better.

Theory and practice of accounting for assets, liabilities, owners’ equity, income and the construction and analysis of financial statements. [Formerly ACCT 303]

FIN 309 Financial Data Analysis (Units: 3)
Prerequisites: FIN 350 with a grade of C- or better; ISYS 263.

Techniques and applications of analysis using accounting-based and market-based financial data. Statistical and financial modeling software systems.

FIN 350 Business Finance (Units: 3)
Prerequisites: Restricted to upper division Business majors and minors; ACCT 101, ECON 101, ECON 102, DS 212, with grades of C- or better.

Sources, methods, and instruments used by firms in obtaining and utilizing funds, in domestic and international markets, for short- and long-term operations, designed to maximize shareholders’ wealth.

FIN 351 Financial Management (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Conceptual and analytical aspects of financial decision-making. Risk-return analysis, capital budgeting, capital structure, valuation, and cost of capital.

FIN 353 Financial Institutions (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Financial institutions in our contemporary financial system; their role in financial markets and in financing business investment, their regulation, investment policies, management problems, and current developments.

FIN 355 Investments (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Sources of investor information. Classes of investments, movement of security prices; analysis and interpretation of financial statements. The role of Wall Street; adapting investment policy to investor needs and purposes.

FIN 357 Financial Statement and Data Analysis (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Techniques for the analysis and applications of financial statements and financial data for financial management and security market analysis, uses of spreadsheet and/or statistical models for financial analysis. (Plus-minus letter grade only)

FIN 365 Real Estate Principles (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Economic, financial, and legal principles of real estate; real property contracts and interest; analysis of housing markets; evaluation of governmental policies and social changes; considerations in owning, leasing, managing various types of realty.

FIN 370 Fundamentals of Real Estate (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Fundamentals of commercial real estate ownership and management. Focus on strategies for creating value in an income-producing property, the concept of investment real estate equity, and leverage strategies to increase portfolio value.

FIN 371 Commercial Real Estate Financial Management (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

The financial relationship between owner and tenant/user. Exploration of the dynamics of two viewpoints: the real estate professional’s objectives and constraints, and the owner/investor who markets to and negotiates with a tenant.

FIN 372 Commercial Leasing and Development (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Application of acquired classroom knowledge to a real-world commercial leasing case addressing the financial challenges of a redevelopment case that has evaded a financial resolution for nearly 20 years. Focus on components of the proposal such as the entitlement process, leasing, financial management, investor financing, and sustainable business issues.

FIN 435 Politics of Global Finance and Crisis (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

The development and role of late 20th and early 21st century financial technologies in modern market crises. Research and critical analysis of 21st century finance capitalism. Political and financial interactions, including limits and possibilities for controlling financial behavior. (This course is offered as PLSI 435, I R 435, and FIN 435. May not be repeated under alternate prefix.)

FIN 536 International Finance (Units: 3)
Prerequisites: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

International financial environment and corporate financial management. Topics include balance of payment, foreign exchange markets, international parity conditions, foreign exchange risk management and international financial markets. (Plus-minus letter grade only)

FIN 653 Seminar in Bank Management (Units: 3)
Prerequisites: Restricted to upper division Finance Major; FIN 353 with a grade of C- or better, ECON 500 recommended.

Analysis of decisions in liquidity, forecasting fund flows, portfolio adjustments, capital structure, profitability, and regulatory constraints applicable to bank management.

FIN 655 Alternative Investment (Units: 3)
Prerequisite: Restricted to upper division Finance majors; FIN 355 with a grade of C- or better.

A theoretical and practical look into the world of managing alternative investments and behavioral finance. Topics include hedge funds, market rationality and irrationality, fixed income, risk and rewards of various investment styles, etc. (Plus-minus letter only)
FIN 656 Student Managed Investment Fund (Units: 3)
Prerequisite: FIN 355 with a grade of C- or better; restricted to upper division finance majors.

Theoretical and practical design of investment strategies, analysis and selection of investment vehicles, analysis of portfolio risk and return, and portfolio performance metrics. (Plus-minus letter grade only)

FIN 658 Financial Risk Management (Units: 3)
Prerequisite: Restricted to upper division Finance majors, FIN 350 with a grade of C- or better.

Analysis and management of corporate and institutional financial risk exposure using financial derivatives. Risk exposures include, market risk, credit risk, liquidity risk, and operational risk. (Plus-minus letter grade only)

FIN 659 Special Topics in Finance (Units: 3)
Prerequisite: Restricted to upper division Finance majors; FIN 350 with a grade of C- or better.

Critical and emerging issues in finance. Topics may include derivative assets; pricing and application; financial and economic crisis mergers and acquisitions; start-up financing; private equity; venture capital, and other relevant topics as they arise.

FIN 699 Independent Study (Units: 1-3)
Prerequisites: Senior standing; FIN 350, two additional required courses for the concentration with a minimum grade of B or better; or consent of instructor.

Intensive problem analysis under the direction of a finance faculty member. Open only to upper division students who have demonstrated ability to do independent work. May be repeated for a total of 12 units. (CR/NC grading only)

FIN 819 Financial Analysis and Management (Units: 3)
Prerequisites: BUS 785 with a grade of B- or better. Restricted to graduate business student, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Analysis of recent innovations in financial theory applied to domestic and international aspects of working capital management, security valuation, capital budgeting, cost of capital, capital structure, dividend policy, mergers and acquisitions. (Plus-minus letter grade only)

FIN 820 Seminar in Financial Risk Management (Units: 3)
Prerequisites: FIN 819 with a grade of B- or better, FIN 825, FIN 828 recommended. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Analysis of the use of financial derivatives to hedge or diversity market risk, interest rate risk, credit risk, liquidity risk, operational risk, currency risk, and legal risk. (Plus-minus letter grade only)

FIN 825 Seminar in Investments (Units: 3)
Prerequisites: FIN 819 with a grade of B- or better. Restricted to graduate business student, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Theoretical literature on domestic and international aspects of investment analysis, valuation, and management. Micro and macro aspects of investments, including models for investment decision-making and security valuation. (Plus-minus letter grade only)

FIN 828 Seminar: Financial Markets and Institutions (Units: 3)
Prerequisites: FIN 819 with a grade of B- or better. Restricted to graduate business student, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Domestic and international aspects of financial institutions, their markets, securities, and business and regulatory environment. Presented from the viewpoint of managers responsible for asset and liability management of financial institutions. (Plus-minus letter grade only)

FIN 836 Seminar in International Finance (Units: 3)
Prerequisites: FIN 819 with a grade of B- or better. Restricted to graduate business student, graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

International financial environment and corporate financial management. Topics include balance payment, foreign exchange markets, international parity conditions, foreign exchange risk management and international financial markets. (Plus-minus letter grade only)
French (FR)

FR 101 First Semester French (Units: 4)
Understanding, speaking, reading, and writing the French language; basic elements of French and Francophone culture. Acquisition of communicative skills in situational-cultural contexts.
Course Attributes:
- C2: Humanities
- Global Perspectives
- Social Justice

FR 102 Second Semester French (Units: 4)
Prerequisite: FR 101 or equivalent.
Continuation of FR 101. Students will continue to engage in basic communication activities and develop the four skills, listening, speaking, reading, and writing, through the study and practice of grammatical and phonetic structures, and through a variety of exercises based on authentic cultural materials representing the Francophone world.
Course Attributes:
- C2: Humanities
- Global Perspectives
- Social Justice

FR 215 Intermediate French I (Units: 3)
Prerequisite: FR 102 or equivalent, or appropriate placement test score.
Attainment of Intermediate High Level in the four skills in French through increasingly complex tasks based on authentic French and Francophone cultural materials.
Course Attributes:
- C2: Humanities
- Global Perspectives
- Social Justice

FR 216 Intermediate French II (Units: 3)
Prerequisite: FR 215 or equivalent.
Attainment of Advanced Low Level in the four skills in French through increasingly complex tasks based on authentic French and Francophone cultural materials.
Course Attributes:
- C2: Humanities
- Global Perspectives
- Social Justice

FR 301 French Phonetics (Units: 3)
Prerequisites: FR 215 and FR 216 or equivalent.
Course Attributes:
- Global Perspectives

FR 304 Advanced Grammar (Units: 3)
Prerequisites: Upper division standing; FR 215 and FR 216 or equivalent.
Intensive review of the French grammar to acquire an advanced level of the language in which structural errors and forms are minimal. Grammar points will be reviewed at the advanced level and in context via literature, paintings, music, etc. Course is offered on-line only.

FR 305 French Composition (Units: 3)
Prerequisites: FR 215 and FR 216 or equivalent.
Practice in expository writing. Form, development, and organization of various types of essays, including the study of style.
Course Attributes:
- Global Perspectives

FR 306 Advanced Conversation (Units: 3)
Prerequisites: FR 215 and FR 216 or equivalent; may be taken concurrently with FR 305.
Oral presentation and group discussions based on literary and cultural topics.
Course Attributes:
- Global Perspectives

FR 350 French for the Business World (Units: 3)
Prerequisites: FR 215 and FR 216, or the demonstrated competence equivalent to the course prerequisites.
Focus on specialized economic and commercial vocabulary, diverse aspects of Francophone professional life, practical materials (e.g., cover letter and CV), and preparation for professional activities (e.g., public speaking and interview).

FR 400GW French Culture - GWAR (Units: 3)
Prerequisites: ENG 214 with a grade of C- or better, FR 305, or equivalent.
Introduction to French culture from the Middle Ages to the early 20th century. Sixty percent of written work will be done in English. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment
- Global Perspectives

FR 410 Contemporary French Civilization (Units: 3)
Prerequisite: FR 305 or equivalent.
The culture and civilization of France from 1939 to present.
Course Attributes:
- Global Perspectives

FR 450 Translating Themes: English/French (Units: 3)
Prerequisite: FR 305 or equivalent.
Translations from a selection of representative texts written in modern English. Four kinds of English texts are examined for translation into French: literature, literary criticism, journalism, and business language. Emphasis on the specific stylistic problems encountered when translating such different genres. [CSL may be available]
Course Attributes:
- Global Perspectives
FR 500 Introduction to Literary Texts (Units: 3)
Prerequisites: FR 301, FR 305, and FR 306, or equivalents, FR 400GW, or equivalent, or concurrent enrollment highly recommended.

Oral and written analysis of selected texts in French, representative of the different periods of French and Francophone literature.

Course Attributes:

• Global Perspectives

FR 501 Contes et Poemes (Units: 3)
Prerequisites: FR 305 or equivalent; FR 301 and FR 306 recommended.

A study of the "conte," or tale, in both its verse and prose forms, as expressed in French and Francophone literature from the Middle Ages to the present.

Course Attributes:

• Global Perspectives

FR 525 17th and 18th Century French Theater (Units: 3)
Prerequisite: FR 500 or equivalent.

Introduction to principal dramatic texts and conventions of seventeenth and eighteenth century France. (FR 825/FR 525 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

FR 555 Art et Poesie: 1860-1940 (Units: 3)
Prerequisite for FR 855: Admission to French M.A. program or consent of instructor.

Prerequisite for FR 555: FR 500 or equivalent or consent of instructor.

French and Francophone poetry between 1860 and 1940 and its relation with the arts, especially music and painting. (FR 855/FR 555 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

FR 565 Paris: Capitale du 19e siècle (Units: 3)
Prerequisite for FR 865: Admission to French M.A. program or consent of instructor.

Prerequisite for FR 565: FR 500 or FR 501 or equivalent.

Investigation of the significance of the French metropolis's rise to preeminence following the French Revolution. Examination of nineteenth-century literary and visual representations of Paris alongside histories of the city; exploration of how culture intersects with the urban environment. (FR 865/FR 565 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

FR 699 Independent Study (Units: 1-3)
Prerequisites Consent of department chair and instructor.

Written project in linguistics, literature or culture. Material adapted to individual needs and interests. Open only to students who have demonstrated ability to do independent work. May be repeated.

FR 800 Seminar in French and Francophone Language and Culture (Units: 3)
Prerequisite: Admission to French M.A. program or consent of instructor.

Rotating course covering the French and Francophone language and culture of a particular theme, period, genre or movement. Topic to be specified in Class Schedule. May be repeated when topics vary.

FR 810 Seminar in French Literary Movements, Periods, or Genres (Units: 3)
Prerequisite: Admission to French M.A. program or consent of instructor.

Rotating course covering the French and Francophone literature of a particular theme, period, genre or movement. Topic to be specified in Class Schedule. May be repeated when topics vary.

FR 812 Le Merveilleux (Units: 3)
Prerequisite: B.A. in French or consent of instructor.

Discovery of the Other and unknown lands through literary works, maps, and paintings from the Middle Ages to 17th century. How medieval and early modern France imagines remote worlds and their exotic inhabitants.

FR 814 Theatre et Spectacles du Moyen Age au 17e (Units: 3)
Prerequisite: Graduate standing in French or consent of instructor.

Examination of the literary, historical, cultural, and theatrical evolution of the stages and performances from Middle Ages to 17th century. Emphasis on analysis of plays, farces, ballets, and operas with particular focus on their innovations, literary, and cultural impacts.

FR 825 17th and 18th Century French Theater (Units: 3)
Prerequisite: FR 500 or equivalent.

Introduction to principal dramatic texts and conventions of seventeenth and eighteenth century France. (FR 825/FR 525 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

FR 835 Les Philosophes (Units: 3)
Prerequisite: BA in French or consent of instructor.

Examination of the French Enlightenment through philosophical topics and cultural context in 18th century France via philosophers such as Voltaire, Rousseau, Montesquieu, Diderot, etc.

FR 855 Art et Poesie: 1860-1940 (Units: 3)
Prerequisite for FR 855: Admission to French M.A. program or consent of instructor.

Prerequisite for FR 555: FR 500 or equivalent or consent of instructor.

French and Francophone poetry between 1860 and 1940 and its relation with the arts, especially music and painting. (FR 855/FR 555 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

FR 865 Paris: Capitale du 19e siècle (Units: 3)
Prerequisite for FR 865: Admission to French M.A. program or consent of instructor.

Prerequisite for FR 565: FR 500 or FR 501 or equivalent.

Investigation of the significance of the French metropolis's rise to preeminence following the French Revolution. Examination of nineteenth-century literary and visual representations of Paris alongside histories of the city; exploration of how culture intersects with the urban environment. (FR 865/FR 565 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
FR 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of
Advancement to Candidacy (ATC) and Culminating Experience (CE) forms
by Graduate Studies. ATC and Proposal for Culminating Experience
Requirement forms must be approved by the Graduate Division before
registration.

Enrollment in 896EXAM required for students whose culminating
experience consists of an examination only. Not for students enrolled in a
culminating experience course numbered FR 898. (CR/NC, RP)

FR 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement
to Candidacy (ATC) for the Master of Arts in French and Culminating
Experience (CE) forms by Graduate Studies.

Thesis must be written in French. Advancement to Candidacy (ATC)
and Proposal for Culminating Experience Requirement forms must be
approved by the Graduate Division before registration. (CR/NC grading
only)

FR 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate major adviser and supervising faculty
member. Enrollment by petition.

Study is planned, developed, and completed under the direction of a
member of the department faculty. Open only to graduate students who
have demonstrated ability to do independent work.
Geography and Environment (GEOG)

GEOG 101 Our Physical Environment (Units: 3)
Environmental processes; elements of weather and climate; shapes of landforms; formation, distribution of soils and natural vegetation; physiography of oceans. Synergistic relations between the physical and human environments.
Course Attributes:
• B1: Physical Science
• Environmental Sustainability

GEOG 102 The Human Environment (Units: 3)
Nature of cultural geography; interpretation of the cultural elements of the geographic landscape and study of our changing relationship with the environment.
Course Attributes:
• D1: Social Sciences
• Environmental Sustainability
• Global Perspectives

GEOG 107 World Regions and Interrelations (Units: 3)
World culture regions: economic development, paths of cultural evolution, bases for political organization and resource appraisals; persistence of cultural differentiation in face of increasing interdependence, cultural transfer, and common threats to humanity.
Course Attributes:
• D1: Social Sciences
• Global Perspectives

GEOG 111 Our Physical Environment Lab (Unit: 1)
Prerequisite: Concurrent enrollment in GEOG 101.
Laboratory related to GEOG 101. Our Physical Environment. Topics include skills in mapping, graphing, field techniques and data analysis in introductory physical geography.

GEOG 160 Introduction to Environmental Science (Units: 4)
Introduction to ecological and environmental systems, and processes and problems at global, state, and local levels; examination of ecosystems, natural resources and earth processes and their interactions with the human environment. Classwork, 3 units; laboratory, 1 unit.
Course Attributes:
• B2: Life Science
• B3: Lab Science
• Environmental Sustainability
• Global Perspectives

GEOG 203 Geographical Measurement (Units: 3)
Prerequisite: A score of 50 or above on the Entry Level Mathematics (ELM) examination, or an approved exemption.

Extraction and analysis of qualitative and quantitative information about our environment. Applications of numerical and statistical techniques through the use of maps, geographic information systems, remote sensing, surveying, and GPS. Lecture, 2 units; laboratory, 1 unit.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• B4: Math/QR

GEOG 205 Geographic Techniques (Units: 3)
Prerequisites: Restricted to sophomore standing and above; GEOG 101 or equivalent; and Area B4: Lower Division Mathematics/Quantitative Reasoning.

Geographical analysis; methodology, tools, and techniques used in geographical research, including data acquisition, classification, descriptive statistics; map reading; introduction to geographic information science and remote sensing. [Formerly GEOG 103]

GEOG 301 Bay Area Environments (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to the complex nature of human and environment interaction in the SF Bay Area. Exploration of environmental issues, geologic processes, water, weather, climate and ecosystems, anthropogenic changes across the region, and the future of the Bay Area.
(This course is taught in a hybrid modality [online and in-person].
(This course is offered as A U 301 and GEOG 301. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-B: Physical Life Science
• Partial Online Course
• Environmental Sustainability

GEOG 312 Geography of Landforms (Units: 4)
Prerequisites: GEOG 101 and GEOG 205; or consent of instructor.

Development of earth's surface landforms through processes involving weathering, hill slopes and flowing water, wind and ice. Structural and climatic control of landforms. Geographic analysis of landform systems. Classwork, 3 units; laboratory, 1 unit. Extra fee required.

GEOG 313 Earth's Climate System (Units: 4)
Prerequisites: GEOG 101 and GEOG 205; or consent of instructor.

Physical characteristics and processes of Earth's climate system; atmospheric composition, radiation, energy and water budgets and circulations, interaction with biological, oceanic and cryospheric systems and global climate change. Computer-based analysis using climate measurements and models. Classwork, 3 units; fieldwork, 1 unit.

GEOG 314 Bioclimatology (Units: 4)
Prerequisites: GEOG 101 and GEOG 205; or consent of instructor.

Interactions between climate and the biosphere including ecosystem-atmosphere exchanges of energy, water and carbon, agricultural and urban climatology, wind transport and energy and measurement techniques. Classwork, 3 units; fieldwork, 1 unit.
GEOG 316 Biogeography (Units: 4)
Prerequisites: GEOG 101, GEOG 205; or consent of instructor.
Distribution, ranges, and limits of plants and animals and the
biogeographical effects of human occupancy. Ecological and historical
themes, the changing patterns of biota in space and time under changing
environmental and human conditions. Classwork, 3 units; fieldwork, 1
unit.

GEOG 317 Geography of Soils (Units: 4)
Prerequisites: GEOG 101, GEOG 205, ERTH 110, CHEM 180 or CHEM 115;
or consent of instructor.
Properties of soils and factors of formation: parent material, climate,
organisms, topography, and time. Distribution of taxonomic suborders.
Soils as a natural resource. Classwork, 3 units; laboratory and field work,
1 unit. Extra fee required.

GEOG 342 Surface Water Hydrology (Units: 4)
Prerequisites: MATH 226 and ERTH 210 or ERTH 505 are recommended;
or consent of instructor.
Introduction to surface water hydrology; exploration of hydrologic
processes; how precipitation and snowmelt become streamflow,
evapotranspiration, and groundwater; watershed hydrology, streamflow
processes, and water quality. (Plus-minus letter grade only) [Formerly
GEOL 473]
(This course is offered as ERTH 442 or GEOG 342. May not be repeated
under alternate prefix.)

GEOG 402 Human Response to Natural Hazards (Units: 3)
Prerequisite: ENG 214 or equivalent.
Human-environmental interactions that result in major and/or
frequent disasters to human lives and properties; overview of physical
mechanisms of natural hazards; coping strategies of societies; mitigation
of natural hazards in the context of sustainable development and
environmental conservation.

GEOG 421 Future Environments (Units: 3)
Prerequisite: ENG 214 or equivalent.
Geography of the future. Programs from an economic point of view and
economic development from an ecological point of view, including the
potential productivity of various regions. Future environments of North
America.

Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability
- Global Perspectives
- Social Justice

GEOG 422 Environmental Perception (Units: 3)
Prerequisite: GEOG 102 or consent of instructor.
Facets of human behavior associated with perceptions of the natural and
spatial environment, including mapping, residential preference, hazard
perception, environmental attitudes and impacts. Classwork, 2 units;
laboratory, 1 unit.

GEOG 423 Geographic Perspectives on Gender, Environment, and
Development (Units: 3)
Prerequisites: Upper division standing; ENG 214; or consent of instructor.
Explores geographic frameworks linking gender and environment and
examines how they have influenced the practice of development. Case
studies from US, Latin America, Africa and Asia. Topics include global
restructuring, gender-population-environment.
(This course is offered as GEOG 423 and WGS 423. Students may not
repeat the course under an alternate prefix.)

GEOG 425 Economic Geography (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Location and geographic distribution of the world’s major types of
production and associated systems of distribution and consumption;
interpretation of economic activities in relation to various features of the
environment.

GEOG 427 Agriculture and Food Supply (Units: 4)
Prerequisites: Upper division standing; GEOG 101; or consent of
instructor.
Investigation of the location and distribution of world agricultural
production and the environmental forces influencing agricultural
organization and food supply. Problems in U.S. and California agriculture
are analyzed. Classwork, 3 units; fieldwork, 1 unit.

Course Attributes:
- Environmental Sustainability
- Global Perspectives

GEOG 428 International Political Economy of Food and Hunger (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Exploration of why hunger persists in a world of abundance; food aid,
farm policy, and global food trade; whether production can match
population growth without environmental harm; crop genetic engineering,
international policies and movements for sustainability, and food
sovereignty/security.
(This course is offered as I R 428 and GEOG 428. Students may not repeat
the course under an alternate prefix.)

GEOG 430 Transforming Food and Agriculture Systems: Local to Global
(Units: 4)
Prerequisites: GEOG 101 and GEOG 102, or GEOG 427, or GEOG 428/
I R 428; or consent of instructor.
Exploration of movements for sustainable and urban agriculture,
local and regional food systems, food justice and food sovereignty;
consideration of ecological, economic, and political aspects of building
alternative food systems locally, nationally, and internationally. Field trips
and community service required. Classwork, 3 units; laboratory, 1 unit.

Course Attributes:
- Environmental Sustainability
- Global Perspectives
- Social Justice
GEOG 432 Urban Geography (Units: 4)
Prerequisite: ENG 214 or equivalent.
Geographic characteristics of cities in relation to evolution, morphology, and function. The internal and external relationships of diversified urban areas. Classwork, 3 units; fieldwork, 1 unit. (This course is offered as GEOG 432 and USP 432. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- Environmental Sustainability
- Global Perspectives

GEOG 433 Urban Transportation (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Interrelationship between urban transportation systems and internal spatial pattern of urban areas. Impact of the automobile and mass transit modes on urban morphology. Regional transportation planning methodology. Classwork, 3 units; fieldwork, 1 unit. (This course is offered as GEOG 433 and USP 433. Students may not repeat the course under an alternate prefix.)

GEOG 434 Geographies of Health and Health Care (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Geographies of health; the role place plays in determining the quality of health status, and in shaping access to and use of health care. (This course is offered as GEOG 434 and H ED 434. Students may not repeat the course under an alternate prefix.)

GEOG 435 Geography of Global Transportation (Units: 4)
Prerequisite: ENG 214 or equivalent.
Global transportation policies involving rail transit, bicycles, freight movement, airport ground access and automobile travel. Case studies in the Bay Area, North America, Europe, China, and Africa. Classwork, 3 units; fieldwork, 1 unit.

GEOG 437 Bicycle Geographies (Units: 4)
Prerequisite: Restricted to students with upper division standing.
Use of the campus and San Francisco as a living laboratory to engage in bicycle planning; key concepts and theories of bicycle transportation; examination of bicycling trends, bicycle system design, and social, cultural and political dimensions to cycling locally and globally. Note: Bicycling required; reasonable accommodations for students with disabilities may be arranged in advance with Disability Programs and Resource Center (DPRC). Classwork, 3 units; activity, 1 unit. (Plus-minus letter grade only)

GEOG 445 Geopolitics and Globalization (Units: 3)
Prerequisites: Upper division standing; ENG 214.
Physical and cultural geographic factors in and between political-territorial units. Effects of resource distribution, political motivations and ideologies on establishing territorial sovereignty. (This course is offered as GEOG 445 and IR 445. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences

GEOG 454 San Francisco on Foot (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Selected geographic themes—accessibility, spatial, interaction, differential land use, and the relationships between technology, values, and environmental utility—as expressed in the neighborhoods of San Francisco. Classwork, 2 units; fieldwork, 2 units. May be repeated for a total of 8 units.

GEOG 455 Geography of Ethnic Communities (Units: 3)
Prerequisite: ENG 214 or equivalent.
The spatial structure and organization of ethnic communities as illustrated by reference to San Francisco and other American cities.
Course Attributes:
- Am. Ethnic & Racial Minorities
- Social Justice

GEOG 500GW Physical and Human Dimensions of Climate Change - GWAR (Units: 3)
Prerequisites: GEOG 101 and GEOG 102; ENG 214 or equivalent with a grade of C- or better.
An interdisciplinary investigation of climate change including the causes, environmental and societal impacts as well as mitigation and adaptation strategies. The class bridges traditional human and physical branches of geography and examines a variety of associated writing conventions. (Plus-minus ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

GEOG 550 Geography of the United States and Canada (Units: 3)
Prerequisite: ENG 214 or equivalent.
Anglo-America's physiography, climates, vegetation, soils, natural resources; the effect on development of industry, commerce, and population distribution.

GEOG 552 Geography of California (Units: 3)
Prerequisite: ENG 214 or equivalent.
Location and description of California's natural resources; influence of land surface, climate, natural vegetation, soils, and minerals upon economic development, routes of commerce, and population distribution. Current water problems.
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Social Justice

GEOG 575 Emerging China (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
GEOG 600 Environmental Problems and Solutions (Units: 3)  
Prerequisite: ENG 214 or equivalent.  
Ecological approach to nature and the landscape. Human populations, natural resources, and environmental quality in California with particular reference to the San Francisco Bay Area.  
(This course is offered as GEOG 600 and ENVS 600. Students may not repeat the course under an alternate prefix.)  
Course Attributes:  
• UD-D: Social Sciences  
• Environmental Sustainability  
• Global Perspectives  

GEOG 601 Field Methods in Human Geography (Units: 3)  
Prerequisite: GEOG 205.  
Application of field methods in human geography. Research methodologies and design including interviewing, surveying, ethnographic methods, and archival research. Classwork, 2 units; laboratory, 1 unit.  
(GEOG 701/GEOG 601 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

GEOG 602 Field Methods in Physical Geography (Units: 4)  
Prerequisite: GEOG 205.  
Application of field methods to physical geography. Research methods and experimental design for field-based data collection including: geomorphic surveying, biometric sampling and atmospheric measurement and monitoring. Classwork, 2 units; fieldwork, 2 units.  
(GEOG 702/GEOG 602 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

GEOG 603 Introduction to Geographic Information Systems (Units: 3)  
Prerequisite: GEOG 205 or ENVS 224, or equivalent.  
Applications of computers in geographic problem-solving. Investigates the nature of geographic information sources—maps, earth images, and spatial databases—and the application of spatial analysis, mapping, charting, and image display tools. Classwork, 2 units; laboratory, 1 unit.  

GEOG 606 Cartography (Units: 4)  
Prerequisite: GEOG 205 or equivalent.  
Techniques of planning and constructing maps; assembly of source materials and compilation; symbol designing, lettering and layout; drafting and reproduction. Manual and automated techniques. Problems of cartographic generalization and symbolization. Classwork, 2 units; laboratory, 2 units. Extra fee required.  

GEOG 610 Remote Sensing of the Environment I (Units: 4)  
Prerequisite: GEOG 205.  
Introduction to remote sensing and digital image processing. Image acquisition, physical background, image interpretation. Display and enhancement of digital images, radiometric and geometric corrections. Classwork, 2 units; laboratory, 2 units. Extra fee required.  

GEOG 611 Remote Sensing of the Environment II (Units: 4)  
Prerequisite for GEOG 711: Graduate standing; GEOG 610; or consent of instructor.  
Prerequisite for GEOG 611: GEOG 610; or consent of instructor.  
Advanced remote sensing and digital image processing. Selected topics including object-oriented image processing with Definiens Professional. Classwork, 2 units; laboratory, 2 units.  
(GEOG 711/GEOG 611 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

GEOG 620 Geographical Information Systems (Units: 4)  
Prerequisites for GEOG 720: Graduate standing; GEOG 603 or equivalent.  
Prerequisite for GEOG 620: GEOG 603 or equivalent.  
Theory and applications of Geographic Information Systems for automating, analyzing, and producing maps from geographic data. Classwork, 2 units; laboratory, 2 units. Extra fee required.  
(GEOG 720/GEOG 620 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

GEOG 621 Geographic Information Systems for Environmental Analysis (Units: 4)  
Prerequisites: GEOG 205, GEOG 603 or equivalent, MATH 199 or sufficient score on calculus pretest.  

GIS applied to environmental analysis. Raster surface analysis, spatial analysis of discrete and continuous surfaces, spatial statistics and the generation of statistical surfaces from environmental samples and contour data. Classwork, 2 units; laboratory, 2 units.  
(GEOG 721/GEOG 621 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)  

GEOG 625 Programming for Geographic Information Science (Units: 4)  
Prerequisites: GEOG 620 or GEOG 621; MATH 199 or sufficient score on calculus pretest.  
Programming methods for developing new tools for automating existing methods for desktop (Python) and web (Javascript) GIScience environments. Essentials of object-oriented programming methods applied to GIS and remote sensing. Classwork, 2 units; laboratory, 2 units.  

GEOG 629 Coastal and Marine Applications of GIS (Units: 3)  
Prerequisite: GEOG 603 or consent of instructor.  
GIS for partial analysis to support coastal and marine research. Benthic habitat mapping, mapping and visualization for coastal/marine applications, spatial analysis of marine animal movements, habitat modeling and mapping of marine protected areas. Classwork, 2 units; laboratory, 1 unit. Extra fee required.  

GEOG 642 Watershed Assessment and Restoration (Units: 4)  
Prerequisites: GEOG 101 or ERTH 210, GEOG 603, MATH 199 or sufficient score on calculus pretest.  
Assessing and restoring watersheds and streams. Hydrologic and watershed processes; variables influencing runoff and erosion; hillslope and stream restoration techniques. Classwork, 3 units; fieldwork and GIS laboratory, 1 unit. [CSL may be available]  
(This course is offered as GEOG 642 and ERTH 642. Students may not repeat the course under an alternate prefix.)
GEOG 643 Biogeomorphology of Sierra Nevada Streams and Meadows (Units: 2)
Prerequisite: GEOG 101 or ERTH 110.
Understanding the complex interactions of hydrologic and biogeomorphic systems on streams and meadows in the northern Sierra Nevada, and learning field methods for assessing stream function as they respond to long-term impacts related to glacial history and short-term human impacts of timber extraction, road construction, and grazing. Laboratory. (This course is offered as GEOG 643 and ERTH 643. Students may not repeat the course under an alternate prefix.)

GEOG 644 Water Quality (Units: 3)
Prerequisites: GEOG 101, GEOG 205, CHEM 180, BIOL 230 or BIOL 240.
Examination of physical and social properties of water quality including pollution testing and mitigation, state and federal regulations, public policy and environmental justice.

GEOG 646 The Geography of Marine Resources (Units: 4)
Prerequisite: GEOG 101 or consent of instructor.
Character and spatial arrangements of resources of the ocean; analysis of marine biomass, minerals, and energy; examination of maritime policy and economic aspects of the marine environment. Classwork, 3 units; laboratory, 1 unit.

GEOG 647 Geography of Water Resources (Units: 4)
Prerequisite: GEOG 101 or consent of instructor.
Distribution and development of atmospheric, surface, and groundwater resources; interrelationships between water and human activities in California and the West. Divergent solutions to water-related issues and controversies. Classwork, 3 units; laboratory, 1 unit. Extra fee required.

GEOG 648 Management of National Parks and Protected Areas (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Conservation and preservation of large ecosystem units: national parks, nature and wildlife reserves and equivalent natural areas. History, management, and problems of these tracts of land. Classwork, 3 units; laboratory, 1 unit.

GEOG 651 San Francisco Bay Area Environmental Issues (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Mission and work of environmental management organizations. Managing our air, water, soil, wildlife, and aesthetic resources. Land use and transportation concepts. Field projects. Classwork, 3 units; laboratory, 1 unit. (This course is offered as GEOG 651 and USP 651. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability

GEOG 652 Environmental Impact Analysis (Units: 4)
Prerequisite: GEOG 205 or ENVS 224 or consent of instructor.
Cultural and physical environmental interrelationships. Evaluating impact proposals. Reconciling resource potentials with human needs, problems of social development impact, and environmental quality protection. (This course is offered as GEOG 652 and USP 652. Students may not repeat the course under an alternate prefix.)

GEOG 657 Natural Resource Management: Biotic Resources (Units: 4)
Prerequisites: GEOG 101, GEOG 205 or ENVS 224, or consent of instructor.
Basic theories and methodologies of managing forest, wildlife and rangeland resources. Agencies, laws, and policies that govern natural resource management. Emphasis on the urban-wildland interface. Lecture, 3 units; laboratory, 1 unit. (This course is offered as GEOG 657 and ENVS 657. Students may not repeat the course under an alternate prefix.)

GEOG 658 Land-Use Planning (Units: 4)
Prerequisite: ENG 214 or equivalent.
The institutions, practice, and methodology of land-use planning. Relationship of planning to socio-economic objectives within the context of market and political forces. The planning process, locational analysis, zoning, and negotiated development. Classwork, 3 units; laboratory, 1 unit. (This course is offered as GEOG 658 and USP 658. Students may not repeat the course under an alternate prefix.)

GEOG 666 Geography of Garbage: Recycling and Waste Reduction (Units: 3)
Prerequisites: Junior standing; ENG 214 or equivalent.
Geographical analysis of waste. Alternative solutions focusing on the San Francisco Bay Area: development and implementation of resource management programs.

Course Attributes:
- Environmental Sustainability

GEOG 667 Environmental Justice: Race, Poverty, and the Environment (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Examination of environmental justice concepts, research and policies; understanding how toxins and other environmental assaults differentially affect communities and groups in USA and abroad; focus on research, ethnic, class dynamics; environmental justice movements, public policy and planning. (This course is offered as USP 515 and GEOG 667. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- Environmental Sustainability
- Global Perspectives
- Social Justice

GEOG 668 Politics, Law, and the Urban Environment (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Law and the legal system as mechanisms for regulating urban development and protecting the environment; intervention in development and land use; environmental decay, conservation of open space, other related resources. Lecture, 3 units; activity, 1 unit. (This course is offered as USP 513, GEOG 668, and PLSI 513. Students may not repeat the course under an alternate prefix.)
GEOG 685 Projects in Teaching Geography (Units: 1-3)
Prerequisites: Upper division standing; a grade of B or better in course for training; consent of Instructor.
Training in the teaching of geography. Responsibilities include working with supervising faculty to review and prepare course materials, tutor students, conduct small discussion groups and give brief lectures/demonstrations. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

GEOG 688 Geographic Internship (Units: 2-6)
Prerequisites: Minimum of fifteen (15) units in geography and consent of instructor.
Practical geographic assignments with sponsoring agencies. May be repeated when different internships are undertaken to a maximum of 6 units.

GEOG 690 Senior Seminar in Geography and Environmental Science (Units: 3)
Prerequisites: Senior standing in BA Geography or BS Environmental Science; completion of core requirements, GEOG 101, GEOG 102 or GEOG 107, GEOG 205, GEOG 500GW.
Research project formulation and development, writing strategies and conventions in academic and professional contexts, career preparation in Geography. (Formerly GEOG 690GW)

GEOG 691 Geography and Environment Capstone (Units: 2)
Prerequisites: Senior standing; GEOG 205 and a GWAR course in geography.
Panel discussions with geographers and other environmental professionals working in the Bay Area. Workshops on career preparation and project development. Laboratory.

GEOG 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, major adviser, and department chair.
Supervised study of a particular problem selected by the student in consultation with the adviser. May be repeated for a total of 3 units.

GEOG 701 Field Methods in Human Geography (Units: 3)
Prerequisite: GEOG 205.
Application of field methods in human geography. Research methodologies and design including interviewing, surveying, ethnographic methods, and archival research. Classwork, 2 units; laboratory, 1 unit.
(GEOG 701/GEOG 601 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GEOG 702 Field Methods in Physical Geography (Units: 4)
Prerequisite: GEOG 205.
Application of field methods to physical geography. Research methods and experimental design for field-based data collection including: geomorphic surveying, biometric sampling and atmospheric measurement and monitoring. Classwork, 2 units; fieldwork, 2 units.
(GEOG 702/GEOG 602 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GEOG 705 Geographical Analysis (Units: 3)
Prerequisites: Classified status in geography; GEOG 205 or equivalent.
Methods of statistical analysis and review of their use in geographic literature; univariate and multivariate analysis, graphical presentation; statistical software. Classwork, 2 units; laboratory, 1 unit.

GEOG 711 Remote Sensing of the Environment II (Units: 4)
Prerequisite for GEOG 711: Graduate standing; GEOG 610; or consent of instructor.
Prerequisite for GEOG 611: GEOG 610; or consent of instructor.
Advanced remote sensing and digital image processing. Selected topics including object-oriented image processing with Definiens Professional. Classwork, 2 units; laboratory, 2 units. (GEOG 711/GEOG 611 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GEOG 720 Geographical Information Systems (Units: 4)
Prerequisites for GEOG 720: Graduate standing; GEOG 603 or equivalent. Prerequisite for GEOG 620: GEOG 603 or equivalent.
Theory and applications of Geographic Information Systems for automating, analyzing, and producing maps from geographic data. Classwork, 2 units; laboratory, 2 units. Extra fee required. (GEOG 720/GEOG 620 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GEOG 721 Geographic Information Systems for Environmental Analysis (Units: 4)
Prerequisites: GEOG 205, GEOG 603 or equivalent, MATH 199 or sufficient score on calculus pretest.
GIS applied to environmental analysis. Raster surface analysis, spatial analysis of discrete and continuous surfaces, spatial statistics and the generation of statistical surfaces from environmental samples and contour data. Classwork, 2 units; laboratory, 2 units. (GEOG 721/GEOG 621 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GEOG 735 Seminar in Global Environmental Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
International/global policy making process and responses to critical environmental problems confronting the world as well as underlying causes such as population explosion and energy consumption. Policy choices, negotiating strategies, and outcomes.
(This course is offered as I R 735 and GEOG 735. Students may not repeat the course under an alternate prefix.)

GEOG 751 Environmental Management (Units: 3)
Prerequisites: Classified standing in geography; GEOG 600 or consent of instructor.
Management and planning concepts and their application to problems in resource development and environmental protection. History of environmental management and policy; national and international problems in environmental management. (Plus-minus letter grade only)

GEOG 776 Environmental Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Covers scope and theories of US and CA environmental policy.
(This course is offered as P A 776 and GEOG 776. Students may not repeat the course under an alternate prefix.)
GEOG 785 College Teaching of Geography (Units: 1-3)
Prerequisites: Graduate standing; a grade of B or better in the course of training; consent of instructor.
Training in the teaching of geography. Work with supervising faculty to review and prepare course materials, tutor students, conduct small discussion groups and give brief lectures/demonstrations. May be repeated for 3 units total of degree credit.

GEOG 789 GIScience Internship (Units: 3)
Prerequisites: Classified standing in MS GIScience program and consent of instructor.
Professional work experience: students will work 135 hours with sponsoring agencies or organizations under the supervision of a faculty member and an on-site work supervisor. (Plus-minus letter grade only)

GEOG 801 Scope and Method in Geography (Units: 3)
Prerequisite: Classified graduate standing in geography.
Nature of geography and its historical development with emphasis on geographic literature. Alternative geographic approaches to themes central to the discipline. (Plus-minus letter grade only)

GEOG 810 Seminar in Physical Geography (Units: 3)
Prerequisites: Classified standing in geography; GEOG 801, appropriate upper division course work.
Field to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)

GEOG 815 Seminar in GIScience (Units: 3)
Prerequisites: Classified graduate standing in geography or GIScience; upper division coursework in GIScience; or consent of instructor.
Theoretical development of GIScience with emphasis on exploring and discussing research literature in geographic information systems, remote sensing, and spatial analysis. Extra fee required. (Plus-minus letter grade only)

GEOG 820 Human and Social Geography (Units: 3)
Prerequisites: Classified standing in geography; GEOG 801, appropriate upper division course work; or consent of instructor.
Investigation of the development of this subfield in human geography with special emphasis on theoretical frameworks, research paradigms and applications to contemporary life. (Plus-minus letter grade only)

GEOG 832 Seminar in Urban Geography (Units: 3)
Prerequisites: Classified standing in geography; GEOG 432; or consent of instructor.
Seminar in geographic theory, methods of analysis, and research techniques relating to urban areas. (Plus-minus letter grade only)

GEOG 857 Issues in Marine and Estuarine Conservation (Units: 3)
Prerequisites: Restricted to graduate students in geography; GEOG 801 or BIOL 708; or consent of instructor.
Exploration of issues of marine, wetland and coastal conservation due to human exploitation of resources. Discussions include critical evaluations of landmark and current research; topics of relevance to individual student research. (Plus-minus letter grade only)

GEOG 858 Seminar in Environmental and Land Use Planning (Units: 3)
Prerequisites: Classified standing in geography; appropriate upper division course work.
Nature and status of environmental planning, including contemporary themes and research trends. Application of geographic concepts, methods, and research techniques.

GEOG 895 Research Project (Units: 3)
Prerequisites: Classified standing in geography; consent of instructor and chair of student's committee; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

GEOG 896 Directed Reading in Geography (Units: 3)
Prerequisites: Classified standing in geography and consent of adviser. Intensive supervised research to achieve better understanding of a specific topic, concept, or area chosen on the basis of individual student need. Readings, tutorial discussion, and research report or creative projects required.

GEOG 897 Research Project Formulation (Units: 2)
Prerequisites: Classified status in geography and filing of ATC form.
Development of Master's thesis: formulation of research question, literature review and methodology, leading to a written and oral proposal; focus on colloquia, thesis defenses, workshops on grants, publication writing, and research methods. (CR/NC grading only)

GEOG 898 Master's Thesis (Units: 3)
Prerequisites: Classified status in geography; consent of instructor and chairperson of candidate's committee; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

GEOG 899 Independent Study (Units: 1-3)
Prerequisites: Classified status in geography; and consent of graduate major adviser, supervising faculty member, and department chair.
Study is planned, developed, and completed under the direction of a member of the departmental faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition. May be repeated for a total of 3 units.
German (GER)

GER 101 First Semester German (Units: 4)
Listening, speaking, reading, and writing German. Intended for true beginners.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

GER 102 Second Semester German (Units: 4)
Continuation of first semester German.
Course Attributes:
  • Global Perspectives

GER 206 Intermediate German Conversation (Units: 3)
Prerequisites: GER 101 and GER 102 or equivalents.
Intensive listening and speaking practice. Group discussions based on texts and videos. Skits and other presentations.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

GER 207 Intermediate German (Units: 3)
Prerequisite: GER 102 or equivalent.
Listening, speaking, reading, and writing at the intermediate level. Group projects based on contemporary issues.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

GER 301 German in Review (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents.
Review of structure and speech patterns. Compositions, oral presentations, and group discussions based on short stories, newspaper articles, contemporary films, and other cultural topics.

GER 302 Grammar in Context (Units: 3)
Prerequisite: GER 207 or equivalent demonstrated proficiency.
[Online Course] Study, review, and communicative practice of grammar structures in the context of real-world language tasks or projects.

GER 305 Advanced Grammar and Composition (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents.
Study and practice of grammar structures. Systematic writing practice.
Course Attributes:
  • Global Perspectives

GER 325 Applied German Linguistics: Phonetics and Phonology (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents.
Application of modern descriptive linguistics to the analysis of the phonetic and phonemic systems. Comparative approach German/English. Laboratory practice.

GER 330 German Language and Society (Units: 3)
Prerequisites: GER 206 and GER 207 or consent of instructor.
Exploration of a wide spectrum of linguistic issues and approaches, illustrated through the analysis of the forms, functions and uses of contemporary German.

GER 335 German Through Cinema (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents or consent of instructor.
Canonical works of German cinema to increase students’ language competence in receptive and productive skills. Development of ideas in writing activities to focus also on vocabulary, grammar, and style.

GER 341 Intensive Language Practice and Analysis (Units: 3)
Prerequisite: GER 305 or equivalent.
Systematic and intensive study of written and oral expression. Designed for advanced students of German. May be repeated for a total of 9 units.

GER 350GW Translation Workshop - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better, GER 206 and GER 207 or equivalents.
Translating written and spoken texts, using German or English as source languages. (ABC/NC grading only)
Course Attributes:
  • Graduation Writing Assessment
  • Global Perspectives

GER 401 German Culture and Civilization I (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents.
Highlights of German culture and civilization from the beginning to 1918.

GER 502 Contemporary Germany (Units: 3)
Prerequisites for GER 802: Admission to German M.A. program; GER 301 or equivalent; or consent of instructor.
Prerequisite for GER 502: GER 301 or equivalent or consent of instructor.
Germany today: its achievement, challenges, problems, potential dangers, and important developments, trends, issues, figures that have shaped the nation.
(GER 802/GER 502 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 510 German Literature I (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents.
Literary development from the Middle Ages through the Age of Goethe.

GER 511 German Literature II (Units: 3)
Prerequisites: GER 206 and GER 207 or equivalents.
Literary development from early 19th century to the present.

GER 530 Die Deutsche Romantik (Units: 3)
Prerequisites: GER 510 and GER 511 or equivalent.
Themes, symbols, and structures in German romantic writers and their position within the larger context of their times and modern thought. A voyage into the self and out into the cosmos.
GER 532 The German Idealist Tradition (Units: 3)
Prerequisite for GER 832: Graduate standing in German or consent of instructor.
Prerequisite for GER 532: Upper division standing or consent of instructor.

Introduction to the rich intellectual history of the literary movement Strum und Drang (literally, "Storm and Stress") (1770-1784 that mark the beginning of literary and philosophical idealism in Germany culminating in Weimar Classicism (1786-1832).
(GER 832/GER 532 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 535 The German Novella of the 19th and 20th Centuries (Units: 3)
Prerequisites: GER 510 and GER 511 or equivalents.

Explore exemplary works of the novella genre from the 19th to the 20th century German literature. Analyze how art responds to the changing political situation in Germany and how various literary movements react to each other aesthetically and politically.
(GER 835/GER 535 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 556 19th and 20th Century German Plays (Units: 3)
Prerequisites: GER 510 and GER 511 or equivalents.

Major works of representative playwrights of the 19th and 20th centuries.
(GER 856/GER 556 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 600 Mobility, Travel, and Identity in German-Speaking Cultures (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Exploration of questions of mobility, travel, and identity in contemporary German, Austrian, and Swiss literature and culture in relation to the historical, socio-political, and cultural context. Taught in English. All texts available in English translation.

GER 613 Weimar Literature in English (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Introduction to Weimar Republic and its representation in exemplary works of literature in English translation. [Taught in English]
(GER 813/GER 613 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 616 Postwar German Literature in English: The Past as Present (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

A study of common themes in postwar German literature to the present. Authors included are Grass, Mann, Koeppen, and Maron. [Taught in English]
(GER 816/GER 616 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 617 The Holocaust and Postwar Germany Taught in English (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Holocaust in Postwar Germany as seen in exemplary works of literature, historical documents and Nuremburg trials. [Taught in English]

GER 699 Independent Study (Units: 1-3)
Prerequisite: Consent of department chair and instructor.
Written projects requiring critical analysis and interpretation of linguistic or literary problems. Material adapted to individual needs and interests. May be repeated.

GER 741 The Holocaust and Postwar Germany Taught in English (Units: 3)
Prerequisite: Graduate standing in German, History, or Jewish Studies, or consent of instructor.
The Holocaust in Postwar Germany as seen in exemplary works of literature, historical documents and Nuremburg trials. (Plus-minus letter grade only) [Taught in English]
(This course is offered as GER 741, HIST 741, and JS 741. Students may not repeat the course under an alternate prefix.)

GER 745 History of German Language (Units: 3)
Prerequisite: GER 330 or MLL 325, or equivalent.

Focusing on the history of German language in the context of its Germanic relatives (including English, Gothic, Icelandic), introduction to the study of historical linguistics, and discussion of universal language issues.

GER 786 Great Theorists: Walter Benjamin (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Walter Benjamin, one of the premier thinkers of the 20th century, and a major influence on figures such as Hannah Arendt, Jacques Derrida, Michel Foucault and others. To thoroughly examine Benjamin is to make inquiries into the basis of thought for the previous century as well as our own.
(This course is offered as PLS 786, GER 786, and HUM 725. Students may not repeat the course under an alternate prefix.)

GER 802 Contemporary Germany (Units: 3)
Prerequisites for GER 802: Admission to German M.A. program; GER 301 or equivalent; or consent of instructor.
Prerequisite for GER 802: GER 301 or equivalent or consent of instructor.

Germany today: its achievement, challenges, problems, potential dangers, and important developments, trends, issues, figures that have shaped the nation.
(GER 802/GER 502 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 813 Weimar Literature in English (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Introduction to Weimar Republic and its representation in exemplary works of literature in English translation. [Taught in English]
(GER 813/GER 613 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 814 Crisis and Quest in English (Units: 3)
Prerequisite: Admission to German M.A. program or consent of instructor.
Works by Kafka, Rilke, Musil, and Heidegger which reflect deep changes, social dilemmas, and new ethics in the 20th century. [Taught in English]
GER 816 Postwar German Literature in English: The Past as Present (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

A study of common themes in postwar German literature to the present. Authors included are Grass, Mann, Koeppen, and Maron. [Taught in English]
(GER 816/GER 616 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 830 Die Deutsche Romantik (Units: 3)
Prerequisites: Admission to German M.A. program; GER 301; or consent of instructor.

Themes, symbols, and structures in German romantic writers and their position within the larger context of their times and modern thought. A voyage into the self and out into the cosmos.

GER 831 Seminar in Literary Movements or Periods (Units: 3)
Prerequisite: Admission to German program or consent of instructor.

German literary movements or literary periods. Topic to be specified in Class Schedule. May be repeated when movements or periods vary.

GER 832 The German Idealist Tradition (Units: 3)
Prerequisite for GER 832: Graduate standing in German or consent of instructor.
Prerequisite for GER 532: Upper division standing or consent of instructor.

Introduction to the rich intellectual history of the literary movement Strum und Drang (literally, “Storm and Stress”) (1770-1784 that mark the beginning of literary and philosophical idealism in Germany culminating in Weimar Classicism (1786-1832).
(GER 832/GER 532 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 835 The German Novella of the 19th and 20th Centuries (Units: 3)
Prerequisites: GER 510 and GER 511 or equivalents.

Explore exemplary works of the novella genre from the 19th to the 20th century German literature. Analyze how art responds to the changing political situation in Germany and how various literary movements react to each other aesthetically and politically.
(GER 835/GER 535 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 856 19th and 20th Century German Plays (Units: 3)
Prerequisites: GER 510 and GER 511 or equivalents.

Major works of representative playwrights of the 19th and 20th centuries.
(GER 856/GER 556 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GER 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 898, or 998, (or in some cases, courses numbered 890 - see program's graduate advisor for further information). (CR/NC, RP)
Gerontology (GRN)

GRN 500 Gerontology: An Interdisciplinary Perspective (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Concepts and issues in gerontology; processes, problems, and challenges of aging as related to other disciplines, integrating and emphasizing research findings.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

GRN 510 Death and Dying in Contemporary Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Attitudes, beliefs, practices, grief responses, and bioethical issues of dying and death which confront the individual and society. Ways to cope and help oneself and others to enhance life and maturity. (This course is offered as NURS 500 and GRN 510. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

GRN 520 Profession of Gerontology (Units: 3)
Prerequisite: Upper division standing.

Academic exploration of gerontology; insights into where students might fit into the field; understanding traditional/non-traditional career paths; knowledge and skills sets required of service professionals for the aged.

GRN 575 Applying Gerontology for our Aging Parents (Units: 3)
Prerequisite: GRN 500 or consent of instructor.

Issues of aging faced by families, communities, and our graying society.

GRN 699 Independent Study (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Pursuit of a topic of special gerontological interest while under the supervision of a faculty advisor/instructor.

GRN 705 Aging in a Multidimensional Context (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of theories and research on aging: interpersonal and structural dimensions of aging; scope, concepts, and approaches in the field.

GRN 710 Aging Processes: Health and Human Services (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of the biomedical and physiological processes and theories of aging. Implications on health and human services for the elderly of diverse backgrounds, cultures, and ethnicities.

GRN 715 Age and Social Policy Analysis (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Exploration of the variety of public and private agencies and businesses, including entitlement programs designed to serve an aging population. Examine a variety of models and frameworks for policy analysis, with attention to global aging issues.

GRN 725 Aging and Diversity (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Multicultural aging issues; psychological aspects of aging for ethnic/racial groups within the U.S. Cultural competence, cohort variations, health differentials, life expectancy/longevity, theoretical perspectives, and methodological implications.

GRN 735 Ethical and Legal Issues in Aging and Social Services (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Ethical dilemmas and legal issues as they pertain to the professional practice of gerontology and the delivery of social services to the elderly.

GRN 740 Nursing Home Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Comprehensive multidimensional study of regulations (finance, human resources, leadership, environmental, resident care, quality of life) for nursing home administrators. Emphasis on OBRA (federal regulations) and Title 22 (state regulations) in preparation for Nursing Home Administrator licensure examination. (Plus-minus letter grade only)

GRN 745 Assisted Living Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Extensive and thorough examination of regulations (business and financial, environmental, human resources, organizational, resident care management) for assisted living and residential care administrators. Emphasis on Title 22 (state regulations) in preparation for RCFE Administrator certification examination. (Plus-minus letter grade only)

GRN 750 Home Care Management (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Design and delivery of home care services to the elderly in the community. Role of home health care professionals and their impact on services. Identification of techniques for providing home care services.

GRN 760 Research Methods in Gerontology (Units: 3)
Prerequisites: Introductory statistics and consent of instructor.

Quantitative and qualitative research designs and methods, data gathering techniques, measurement and data analysis and interpretation. Applications of research methods to studies in aging, including descriptive and comparative research, program evaluations, and needs assessments.

GRN 765 Aging and Continuum of Care (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Overview of continuum of care; emphasis on human diversity, quality of care, and quality of life. Concepts, functions, issues, and skills associated with home and community-based services, adult day care, assisted living, nursing facilities, and hospice care.

GRN 820 Age and Social Relations (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Aging in a social context. Diversity and heterogeneity in later life social interactions. Interweaving of growth and decline in the context of multiple social relations.
GRN 838 Gerontology Seminar (Units: 3)
Prerequisite: Enrollment in gerontology program or consent of instructor.

Group process in support of gerontology internship, learning contract and qualitative methods; fieldwork experience and techniques; ethics and problem-solving. May be repeated for a total of 6 units. (Plus-minus letter grade; CR/NC allowed, RP)

GRN 839 Gerontology Internship (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Field internship in cooperation with a private/public profit or non-profit organization enabling students to acquire competencies and experiences required for professional responsibilities. May be repeated for a total of 6 units.

GRN 890 Integrative Seminar (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Capstone to demonstrate knowledge and skills in problem-solving, decision-making, critical thinking, and cooperative and collaborative communications.

GRN 895 Field Study (Units: 3)
Prerequisites: Consent of gerontology adviser and instructor; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Field study or applied research resulting in completed written work that as a minimum includes project’s significance, objectives, methodology, conclusions/recommendations. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

GRN 897 Gerontology Research (Units: 3)
Prerequisites: Classified graduate status and consent of graduate adviser. Independent/original research under faculty supervision.

Continuous enrollment required for all students yet to complete the master’s thesis or research project. May be repeated for a total of 9 units, but cannot be used more than 3 units for degree credit.

GRN 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and graduate major adviser; approval of Advancement to Candidacy (ATC) for the Master of Arts and Culminating Experience (CE) forms by Graduate Studies.

An intensive, systematic study of a significant topic or problem in gerontology. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

GRN 899 Independent Study (Units: 3)
Pursuit of a topic under the supervision of a faculty adviser/instructor. May be repeated for a total of 6 units.
Global Peace Studies (GPS)

GPS 315 Introduction to Global Peace Studies (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

The field of peace studies and the integrative questions which must be answered to achieve a coherent perspective on world peace. National and international issues, the environment, philosophy, literature, arts, media, and education.
(This course is offered as GPS 315, IR 315, and PHIL 315. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Environmental Sustainability
- Global Perspectives
- Social Justice

GPS 375 Peace Law and Human Rights in the U.S. (Units: 3)
Prerequisites: Sophomore or higher standing; one lower division composition course; or consent of instructor.

Law of peace from the local to the international level; international treaties, covenants, statutes of Congress, legislatures, and city councils, criminal indictments, court affidavits, judges opinions, jury instructions, and relevant articles.
(This course is offered as GPS 375 and PHIL 375. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
- Social Justice
Greek (GRE)
GRE 101 Elementary Ancient Greek (Units: 3)
Greek language and grammar with emphasis on the rapid readings of graded Attic prose. Exercises in the writing of Greek sentences. Groundwork for the great Greek masters of poetry and prose in the original language.
Course Attributes:
- C2: Humanities

GRE 202 Intermediate Ancient Greek (Units: 3)
Prerequisite: GRE 101 or equivalent.
Understanding, reading, and writing of ancient Greek at the intermediate level. Reading selections from a variety of ancient Greek prose and poetry.

GRE 301 Introduction to Greek Prose and Poetry (Units: 3)
Prerequisite: GRE 202 or consent of instructor.
Reading, translating, and literary analysis of passages from ancient Greek, alongside grammar and vocabulary review.

GRE 430 Greek Oratory I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of Greek speeches and rhetorical works, with a focus on Lysias and Demosthenes. Discussion of historical context. (GRE 730/GRE 430 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 431 Greek Oratory II (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of Greek speeches and rhetorical works, with a focus on Gorgias and Isocrates. Discussion of historical content. (GRE 731/GRE 431 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 435 Greek Historiography I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of Greek historical works, with a focus on Herodotus and Xenophon. Discussion of historical context. (GRE 735/GRE 435 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 436 Greek Historiography II (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of Greek historical works, with a focus on Thucydides and Polybius. Discussion of historical context. (GRE 736/GRE 436 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 440 Greek Epic I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of archaic epic, with a focus on Homer’s Iliad and Hesiod’s Works and Days. Discussion of formal features, such as meter and dialect, and social and performative context. (GRE 740/GRE 440 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 441 Greek Epic II (Units: 3)
Prerequisites for GRE 741: Graduate standing; reading knowledge of ancient Greek; or consent of instructor; Prerequisites for GRE 441: Upper division standing; reading knowledge of ancient Greek; or consent of instructor.
Translation and analysis of archaic epic, with a focus on Homer’s Odyssey and Hesiod’s Theogony. Discussion of formal elements and social and performative context. (GRE 741/GRE 441 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 445 Greek Drama I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of classical Greek drama, with a focus on Euripides and Aristophanes. Discussion of historical context. (GRE 745/GRE 445 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 446 Greek Drama II (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of classical Greek drama, with a focus on Aeschylus and Sophocles. Discussion of historical context. (GRE 746/GRE 446 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 450 Greek Philosophy I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of Greek philosophical texts, with a focus on the pre-Socratics, the Sophists, and/or the early and middle works of Plato. (GRE 750/GRE 450 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 451 Greek Philosophy II (Units: 3)
Prerequisites for GRE 751: Graduate standing; reading knowledge of ancient Greek; or consent of instructor. Prerequisites for GRE 451: Upper division standing; reading knowledge of ancient Greek; or consent of instructor.
Translation and analysis of Greek philosophical texts, with a focus on the later works of Plato and/or on Aristotle. (GRE 751/GRE 451 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 455 Greek Lyric Poetry I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.
Translation and analysis of archaic lyric poetry, with a focus on genres of laments and elegy. Discussion of formal features, such as meter and dialect, and social and performative context. (GRE 755/GRE 455 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 465 Hellenistic Poetry (Units: 3)
Prerequisite for GRE 765: Intermediate Greek or equivalent. Prerequisite for GRE 465: GRE 202 or equivalent.
Translation of works of Callimachus, Theocritus, Apollonius Rhodius. (GRE 765/GRE 465 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
GRE 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Projects requiring critical study and analysis of advanced material adapted to individual needs and interests. May be repeated.

GRE 730 Greek Oratory I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of Greek speeches and rhetorical works, with a focus on Lysias and Demosthenes. Discussion of historical context.
(GRE 730/GRE 430 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 731 Greek Oratory II (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of Greek speeches and rhetorical works, with a focus on Gorgias and Isocrates. Discussion of historical content.
(GRE 731/GRE 431 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 735 Greek Historiography I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of Greek historical works, with a focus on Herodotus and Xenophon. Discussion of historical context.
(GRE 735/GRE 435 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 736 Greek Historiography II (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of Greek historical works, with a focus on Thucydides and Polybius. Discussion of historical context.
(GRE 736/GRE 436 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 740 Greek Epic I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of archaic epic, with a focus on Homer’s Iliad and Hesiod’s Works and Days. Discussion of formal features, such as meter and dialect, and social and performative context.
(GRE 740/GRE 440 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 741 Greek Epic II (Units: 3)
Prerequisites for GRE 741: Graduate standing; reading knowledge of ancient Greek; or consent of instructor;
Prerequisites for GRE 441: Upper division standing; reading knowledge of ancient Greek; or consent of instructor

Translation and analysis of archaic epic, with a focus on Homer’s Odyssey and Hesiod’s Theogony. Discussion of formal elements and social and performative context.
(GRE 741/GRE 441 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 745 Greek Drama I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of classical Greek drama, with a focus on Euripides and Aristophanes. Discussion of historical context.
(GRE 745/GRE 445 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 746 Greek Drama II (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of classical Greek drama, with a focus on Aeschylus and Sophocles. Discussion of historical context.
(GRE 746/GRE 446 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 750 Greek Philosophy I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of Greek philosophical texts, with a focus on the pre-Socratics, the Sophists, and/or the early and middle works of Plato.
(GRE 750/GRE 450 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 751 Greek Philosophy II (Units: 3)
Prerequisites for GRE 751: Graduate standing; reading knowledge of ancient Greek; or consent of instructor.
Prerequisites for GRE 451: Upper division standing; reading knowledge of ancient Greek; or consent of instructor.

Translation and analysis of Greek philosophical texts, with a focus on the later works of Plato and/or on Aristotle.
(GRE 751/GRE 451 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 755 Greek Lyric Poetry I (Units: 3)
Prerequisite: Reading knowledge of ancient Greek.

Translation and analysis of archaic lyric poetry, with a focus on genres of Iambos and elegy. Discussion of formal features, such as meter and dialect, and social and performative context.
(GRE 755/GRE 455 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 765 Hellenistic Poetry (Units: 3)
Prerequisite for GRE 765: Intermediate Greek or equivalent.
Prerequisite for GRE 465: GRE 202 or equivalent.

Translation of works of Callimachus, Theocritus, Apollonius Rhodius.
(GRE 765/GRE 465 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

GRE 899 Independent Study (Units: 1-3)
Prerequisites: Advanced reading knowledge of Greek and consent of supervising faculty member.

Reading of an ancient Greek author or authors, under the supervision of a member of the Classics faculty. Enrollment by petition. May be repeated for a total of 6 units.
Health Education (H ED)

H ED 100 Public Health Biology (Units: 3)
Introduction to public health biology—the biological and molecular context of public health and its incorporation into public health practice. Exploration of principles of population biology, ecology, and molecular biology in relation to public health problems. (Plus-minus letter grade only.)
Course Attributes:
- Environmental Sustainability

H ED 120 Educational Justice, Health Equity, and Academic Success (Units: 3)
Focus on educational justice, public health, and social justice. General education skills—writing, oral communication, critical thinking, and quantitative reasoning—will be systematically reinforced. (Plus-minus letter grade only)
Course Attributes:
- E1: Lifelong Learning Develop
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

H ED 200 Global Health (Units: 3)
Health around the world, including economic, political, and sociocultural factors that influence community health and health care. Linkages between health, human rights, the environment, and a colonial legacy.
Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences
- Global Perspectives
- Social Justice

H ED 204 Health Values and Sexuality (Units: 3)
Critical thinking and communication across differences in values related to human sexuality and health.

H ED 210 Personal and Social Determinants of Health (Units: 3)
Personal and social determinants of health through examination of the role individuals play in their own health and wellbeing, along with the impact of social, structural factors that play a role both in individual and community health.
Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences
- Social Justice

H ED 221 Health and Social Justice - Burning Issues, Taking Action (Units: 3)
Social and economic injustices as root causes of the uneven distribution of disease. Current health issues, the process for influencing policy, and the skills to effectively advocate for health and social justice.
Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

H ED 231 Health Justice in Social Policy (Units: 3)
Explore role of social and economic injustices. Focus on social policy as determinant of health justice. Analyze policy and advocate for change in communities. Explore importance of community in creating social change. (Plus-minus letter grade only)

H ED 241 Health and Social Movements in the United States in the 20th Century (Units: 3)
Examination of history during the 20th century with a special emphasis on health and social justice issues. Focus on the main historical periods and events, with a lens of the “people’s history narrative” that brings out voices historically silenced.
Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Social Justice

H ED 280 Empowering Poor Families to Graduate Out of Poverty (Units: 3)
College success course (self-directed). Consciousness and critical thinking skills. Participation in fieldwork addressing social justice related to wealth/poverty-health-human relation constructs/leadership in areas of education and community health. May be repeated for a total of 6 units. [CSL may be available]
(This course is offered as H ED 280 and COUN 280. Students may not repeat the course under an alternate prefix.)

H ED 290 Promoting Positive Health (Units: 3)
Embodied learning to promote physical, mental, spiritual and community health through yoga, dance, drawing, writing, collage, poetry and photography. Multicultural experience, active creative participation and intellectual pursuit as tools to improve flexibility and understanding, and to unlearn and heal oppression.
(This course is offered as H ED 290 and HH 290. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- E1: Lifelong Learning Develop
- C1: Arts
- Global Perspectives

H ED 303 Health Disparities and Sexual and Gender Minority Communities: LGBTQI Health (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of health disparities in sexual and gender minority communities with a particular focus on the impact of stigma faced by LGBTQI individuals, families, and communities. Various aspects of health and well-being will be explored.
Course Attributes:
- UD-D: Social Sciences
H ED 305 Critical History of Public Health in the United States (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Major issues, events, and historical figures in public health in the United States from the colonial period to the present. Emphasis on socio-cultural and political aspects of infectious and chronic diseases, epidemics, health disparities, public health reforms and advances

Course Attributes:
- U.S. History
- Social Justice

H ED 310 Health in Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Major health issues/problems of individual and society; prevention and the validity of current health beliefs. Nutrition, mental health, sexuality, environmental health, communicable and chronic diseases, consumerism, stress, aging.

H ED 315 Drugs and Society (Units: 3)
Prerequisite: Upper division standing.

Physical, psychological, and sociological aspects of drug use and misuse in contemporary society, including examinations of the drug war, the prison industrial complex, community prevention and control.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

H ED 320 Contemporary Sexuality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Information about sexuality; its impact on interpersonal relationships. Anatomy and physiology; psycho-sexual development, sex roles, pregnancy, childbirth, parenting, contraception, sexually transmitted diseases, sexual behavior, myths, misconceptions. Sexual value systems and communication skills.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science
- Social Justice

H ED 400GW Community Assessment in Public Health - GWAR (Units: 3)
Prerequisites: Restricted to upper division Health Education majors; ENG 214 or equivalent with a grade of C or better, and completion of GE critical thinking requirement; must be taken concurrently with H ED 405 and H ED 425. (Exceptions to concurrency requirements by consent of advisor.)

Foundations of public health and health education including qualifications and professional preparation of the public health practitioner. Strong emphasis on professional and scholarly writing and analytical skills. (ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

H ED 405 Introduction to Community/Public Health (Units: 3)
Prerequisite: Restricted to Health Education majors/minors; must be taken concurrently with H ED 400GW and H ED 425. (Exceptions to concurrency requirement by consent of advisor.)

Exploration of major concepts and trends in public health. Historical and philosophical topics, braches, core functions, models and theories of public health. Various forms of communities and the health education profession will be explored.

H ED 410 Organization and Function of Health Services (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Health care and delivery of services: identification and function of governmental, private, and voluntary organizations; programs in health protection and promotion at local, state, and national levels. Community activities required.

H ED 414 Women’s Health - Problems and Issues (Units: 3)
Prerequisite: Upper division standing or consent of instructor.


Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

H ED 415 Health Aspects of Aging (Units: 3)
Prerequisite: Upper division standing or consent of instructor.


Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Social Justice

H ED 417 AIDS: Contemporary Health Crisis (Units: 3)
Prerequisite: Upper division standing or consent of instructor.


Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

H ED 420 Epidemiology (Units: 3)
Prerequisite: Restricted to Health Education majors and minors.

Disease patterns in the human population, how diseases are distributed, what factors are associated with them. Etiology, recognition, transmission, prevention, and control of health disorders and communicable and chronic diseases.
H ED 425 Introduction to Research and Statistics in Health (Units: 3)
Prerequisites: Restricted to upper division Health Education majors; MATH 124 or equivalent; must be taken concurrently with H ED 400GW and H ED 405. (Exceptions to concurrency requirements by consent of advisor.)
Quantitative methods for elementary statistical analysis in research and evaluation in the health field.

H ED 430 Community Health Education Theory (Units: 3)
Prerequisites: Restricted to Health Education majors; H ED 400GW with a grade of C or better.
Theoretical frameworks, concepts, and methods which form the basis for community health education; communication and group process; social, educational, behavioral and attitudinal change.

H ED 431 Program Planning, Implementation, and Evaluation (Units: 3)
Prerequisites: Restricted to Health Education majors; H ED 400GW, H ED 425, and H ED 430 with grades of C or better.
Senior course and professional preparation in health education program planning, implementation, and evaluation. (Plus-minus letter grade only)

H ED 434 Geographies of Health and Health Care (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Geographies of health; the role place plays in determining the quality of health status, and in shaping access to and use of health care. (This course is offered as GEDG 434 and H ED 434. Students may not repeat the course under an alternate prefix.)

H ED 450 Policy Issues in Health Education (Units: 3)
Prerequisite: Restricted to Health Education majors and minors.
Selected local, state, national, and international health policy issues. Methods of education and socio-political intervention.

H ED 455 Community Organizing and Community Building for Health (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Dialogue, action and reflection on community building, non-violence, cultural humility and social engagement. Skills in leadership development, empowerment, and experiential learning. Passion for social justice and human rights. Photovoice, media literacy/advocacy taught as tools for organizing. (Plus-minus letter grade only) [CSL may be available]

Course Attributes:
- E1: Lifelong Learning Develop
- UD:C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Global Perspectives
- Social Justice

H ED 480 Fieldwork and Reflective Seminar (Units: 9)
Prerequisites: H ED 400GW, H ED 425, H ED 430, and H ED 431 with grades of C or better; restricted to Health Education majors.
Directed experiences in community health education through 20 hours per week of fieldwork in health departments, voluntary health agencies, and other community health services. (Health Education majors must receive a C or better.)

H ED 520 Structural Oppression and Social Foundations of Health (Units: 3)
Prerequisite: Restricted to upper division Health Education majors.
Health status of ethnic, gender, and sexual orientation communities in the U.S. Impact of personal and cultural beliefs, lifestyle/behavior patterns, racism, poverty, sexism, homophobia and health care on individual and group health. Effective health promotion strategies are explored.

Course Attributes:
- Social Justice

H ED 527 Documentary for Health and Social Justice I (Units: 6)
Prerequisites: ENG 214 or equivalent; consent of instructor.
Hands-on collaborative production of social justice and health documentary films. Preproduction research includes identifying issues and community participants. Screening, critiquing, and editing. May be repeated for a total of 12 units. (This course is offered as CINE 527 and H ED 527. Students may not repeat the course under an alternate prefix.)

H ED 528 Documentary for Health and Social Justice II (Units: 6)
Prerequisites: ENG 214 or equivalent, CINE 527 or H ED 527; consent of instructor.
Production of documentary films with a focus on issues related to social justice and health. Includes research to identify salient issues and community participants. Develops proficiency in various stages of documentary filmmaking (pre-production, production, post-production). Culminates in public screening of film projects. Lecture, 3 units; activity, 3 units. (This course is offered as CINE 528 and H ED 528. Students may not repeat the course under an alternate prefix.)

H ED 630 Elementary School Health (Units: 3)
Prerequisite: Senior standing or credential candidate.
Research related to personal, family, and community health for children and youth: alcohol, tobacco, drugs, and venereal disease. Health practices and procedures: philosophy, problems, emergency care, school lunch, safety, and environment. (CR/NC grading only)

H ED 635 Secondary School Health (Unit: 1)
Prerequisite: Senior standing or credential candidate.
School health programs; the teacher’s role and responsibilities toward the promotion and maintenance of the health of the secondary school student through health services, environment, and comprehensive health education. (CR/NC grading only)

H ED 640 Structural Inequities and Public Health (Units: 3)
Prerequisite: Upper division standing.
On-line course designed to broaden students understanding of wealth distribution, social status, and political power as determinants of health. Analysis of research demonstrating the relationships between health, education, and socio-economic status.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice
H ED 650 Training and Education Processes in Public Health (Units: 3)
Prerequisite: Upper division or graduate standing.
Phenomenal underpinnings, theoretical approaches, and practical applications of being a health educator, viz., providing trainings and educational interventions. Training and educational frameworks, assess learners' needs, objectives and evaluation.

H ED 665 Environmental Health (Units: 3)
Prerequisite: Restricted to upper division Health Education majors.
Environmental factors impacting health, including the consequences of natural and human-made hazards. Scientific models and socio-political frameworks that analyze these topics. Assessment of contemporary health issues.

H ED 660 Developing Healthy Youth in Schools and Communities (Units: 3)
Prerequisite: Upper division standing.
Child and adolescent health and well-being, school and community-based approaches to prevention and intervention, and frameworks such as youth development, youth assets/resiliency, and the ecological model of health.

H ED 664 Community-Based Participatory Research for Healthy Equity (Units: 2)
Prerequisite: Upper division standing or consent of instructor.
Community-Based Participatory Research (CBPR) advocates collaboration between researchers and research. Examination of CBPR theory and practice; presentation by community-academic partners; gain appreciation of CBPR strengths and challenges; hands-on skills.

H ED 665 Community Based Participatory Research in Public Health (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Theories, principles, and strategies of Community Based Participatory Research (CBPR). Case studies presented.

H ED 670 Principles of Peer Health Education (Units: 3)
Prerequisite: Prior consent of instructor.
Concepts of positive health promotion and prevention; training in helping, and behavior change skills. Students volunteer 3 hours weekly in Student Health Center plus class meetings.

H ED 671 Practice of Peer Health Education (Units: 3)
Prerequisite: H ED 670.
Experience providing health risk assessment, consulting with clients, staffing resource center, conducting workshops. Work 4 hours per week in Student Health Center plus supervision seminar. [CSL may be available]

H ED 685 Projects in the Teaching of Health Education (Units: 1-4)
Prerequisites: Advanced undergraduate standing in health education and approval of supervising instructor and department/program; grade of B or better in course in which student will be instructional aide.
Teaching experiences in the health education discipline through assigned instructional projects in a classroom and under the guidance of a member of the faculty. Training in pedagogical principles including supervised classroom teaching activities. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

H ED 698 Independent Study (Units: 1-3)
Prerequisites: Senior standing and consent of instructor.
Study of a particular problem under the direction of a member of the department. May be repeated for a total of 9 units.

H ED 785 Graduate Teaching Assistantship in Health Education (Units: 1-4)
Prerequisites: Graduate student in good academic standing; subject matter mastery in course for which student will serve as teaching assistant; consent of instructor.
Supervised teaching practicum experience with Health Education faculty member. Theoretical/practical aspects of college teaching; curricular design/delivery, group discussion/activities facilitation, meaningful student feedback/assessment practices. Course may be repeated without limit for transcript credit. MPH students may only apply 3 units maximum toward MPH degree requirements.

H ED 810 Public Health and Principles of Community Organizing (Units: 3)
Prerequisite: Restricted to graduate students in the MPH program.
Theoretical overview and practical application of community-based public health. Non-violent social action, community diagnosis, social networks, primary prevention, media advocacy/literacy. (Plus-minus letter grade only)

H ED 811 Community Health Education Skills ePortfolio (Unit: 1)
Prerequisite: H ED 830.
Development of a community health education electronic portfolio chronicling the products produced during the MPH program with the skills required for master-trained community health education professionals. (CR/NC or RP only)

H ED 815 Theories of Social Behavioral Change in Community Health Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theories relevant to health education practice. Critical analysis of theories and their development, contextualization, and practice. Utilization of these theories in practical applications. (Plus-minus letter grade only)

H ED 820 Community Health Assessment (Units: 3)
Prerequisites: H ED 810, H ED 815, H ED 884 with grade of B- or higher; concurrent enrollment in H ED 821 required. 
Assessment process using applied research methods which empower communities to create programs that respond to their health challenges, concerns, and strengths. (Plus-minus letter grade only)

H ED 821 Public Health Profession Practice (Units: 3)
Prerequisites: H ED 810, H ED 815, and H ED 884, with grade of B- or higher; concurrent enrollment in H ED 820 required.
Application of public health professional skills. Building solid understanding how to develop and implement community assessments, including qualitative research methods. Skill-building in working teams, managing public health projects, delivering professional presentations, collaborating with community organizations. (Plus-minus letter grade only) [CSL may be available]
H ED 822 Advanced Public Health Profession Practice (Units: 3)
Prerequisites: H ED 820 and H ED 821.
Theory and practice in the implementation of a community health assessment. Students will continue to build a solid understanding of working in teams to implement a community health assessment. (Plus-minus letter grade only) [CSL may be available]

H ED 825 Epidemiology (Units: 3)
Prerequisites: H ED 820 and H ED 829 with grades of B or higher.
An introductory and comprehensive survey of epidemiological principles and methods. A history and overview of the field, including contemporary case studies, along with an examination of the methods used to study disease distributions in diverse human populations. (Plus-minus letter grade only)

H ED 828 Biostatistics Lab (Unit: 1)
Prerequisites: Restricted to graduate students in the MPH program; prior course in inferential statistics; must have concurrent enrollment in H ED 829
Review and apply bio-statistical concepts and procedures typically employed in public health research.

H ED 829 Biostatistics and Public Health (Units: 3)
Prerequisites: Restricted to graduate students in the MPH program; must have concurrent enrollment in H ED 828.
Introduction to basic statistical techniques, concepts, and tests commonly used in public health. Understanding of data types and data distribution. Critical understanding of the use of statistics in journal articles.

H ED 830 Health Education Planning, Management, and Administration for Community Change (Units: 3)
Prerequisites: Restricted to graduate students in the MPH program; H ED 822.
Skill acquisition in health education planning, management, and administration. Application of CHE theories, problem definition, program design, development of goals and objectives, logic models, timelines, securing fiscal resources, personnel, budgeting, organizational leadership, strategic planning, partner/stakeholder relationships. (Plus-minus letter grade only)

H ED 835 Public Health Policy (Units: 3)
Prerequisite: Restricted to graduate students in the MPH program.
Course is designed to help students better understand the political environment in which public health operates and how to work within it. Features discussions on media advocacy and on ethics as applied to public health and politics. (Plus-minus letter grade only)

H ED 840 Program Evaluation Design and Research (Units: 3)
Prerequisite: H ED 830.
Concepts and methods of program evaluation. Development of the skills necessary to assess published evaluation research and to apply technical evaluation skills in professional practice. (Plus-minus letter grade only)

H ED 845 Educational Processes, Training and Curricula in Public Health (Units: 3)
Prerequisite: Restricted to graduate students in the MPH program.
Examination of adult learning theories. Emphasis on comprehensive curricular design, delivery and evaluation of health education programs. Particular focus on differentials of power, critical pedagogy, the use of technology and relationship building.

H ED 855 Environmental Health (Unit: 1)
Prerequisite: MPH student or consent of instructor.

H ED 884 Seminar in Applied Community Health Education Research (Units: 2)
Prerequisites: Restricted to graduate students in the MPH program; concurrent enrollment in H ED 810 and H ED 815.
Overview of public health research design/methods and discipline writing conventions/styles to set context for the biostatistics, community needs assessment, epidemiology, and evaluation courses. Facilitates integration of theory and research. (Plus-minus letter grade only)

H ED 885 Advanced Seminar in Applied Community Health Education Research (Units: 3)
Prerequisite: H ED 822.
MPH culminating experience proposal development course. Topics include a review of research methods, design, instruments; special focus on survey design; conducting online searches; literature review preparation and process; practical writing and critical thinking exercises. (Plus-minus letter grade only)

H ED 890 Master of Public Health Culminating Experience Seminar (Units: 3)
Prerequisites: Graduate student in the Master of Public Health program; minimum 3.0 cumulative GPA; approved ATC and CE proposal forms; previous or concurrent completion of any remaining coursework required for MPH degree.
Examination of critical issues in the field of public health. Application and integration of MPH competencies into professional products appropriate for use in the field. Demonstration of MPH field-specific professional writing and oral presentation skills.

H ED 895 Applied Research Project in Community Health Education (Units: 3)
Prerequisites: 3.0 or higher cumulative GPA; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies; H ED 825, H ED 830. Previous or concurrent completion of any remaining required MPH coursework.
Faculty-supervised completion of a culminating experience research paper and oral presentation. (Plus-minus letter or RP grading only)

H ED 899 Independent Study (Units: 1-3)
Prerequisite: Consent of health education graduate adviser.
Study is planned, developed, and completed under the direction of a member of the department. Open only to graduate students of demonstrated ability to do independent work. Enrollment by petition. May be repeated for a total of 12 units.
Health and Social Sciences (HSS)

HSS 100 Introduction to Health and Social Sciences (Unit: 1)
Success skills and learning strategies for freshmen. Review of academic preparedness, strengths and areas for development to create a plan leading to career opportunities. Personal and interpersonal behavior required for professional interactions.

HSS 110 Critical Thinking/Student Success in Health & Social Sciences Fields (Units: 3)
Developing critical thinking (understanding, criticizing, and constructing arguments) as a foundation for college success skills and learning strategies for first time freshmen interested in Health and Social Science fields. Review of academic preparedness, strengths and areas for development to create a plan leading to career opportunities. [Formerly HSS 101]
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:

• A3: Critical Thinking

HSS 499 Culminating Experience Continuous Enrollment (Unit: 0)

HSS 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Supervised study of a particular health and social science issue selected by student. May be repeated for a total of 4 units. (Plus-minus letter grade only)

HSS 700 Graduate Writing in Health and Social Sciences (Units: 3)
Prerequisite: Must be a student in a college of Health and Social Science graduate program or consent of instructor.
Preparation for graduate-level writing by strengthening writing organization, integrating sources, critically analyzing publications, APA style, and developing skills for effective written communication. May not be used to meet ATC requirements. (CR/NC only)
Hebrew (HEBR)

HEBR 101 First Semester Modern Hebrew (Units: 3)
Understanding, speaking, reading, and writing the modern Hebrew language; elements of Israeli and Jewish culture. Acquisition of communicative skills in situation/cultural contexts. [Formerly JS 151/HEBR 151]
Course Attributes:

• C2: Humanities
• Global Perspectives

HEBR 102 Second Semester Modern Hebrew (Units: 3)
Prerequisite: HEBR 101 or equivalent or demonstrated equivalent proficiency.
Continuation of first semester modern Hebrew. [Formerly JS 152/HEBR 152]
Course Attributes:

• C2: Humanities
• Global Perspectives

HEBR 201 Third Semester Modern Hebrew (Units: 3)
Prerequisite: HEBR 102 or equivalent or demonstrated equivalent proficiency.
Continuation of modern Hebrew at the intermediate level.
Course Attributes:

• C2: Humanities
• Global Perspectives

HEBR 202 Fourth Semester Modern Hebrew (Units: 3)
Prerequisite: HEBR 201 or equivalent or demonstrated equivalent proficiency.
Continuation of modern Hebrew at the intermediate level.
Course Attributes:

• C2: Humanities
• Global Perspectives
History (HIST)

HIST 101 Critical Thinking in History (Units: 3)
Exploration of how to think historically and critically analyze the work of historians. Subject matter includes identifying, differentiating, constructing, and evaluating arguments, recognizing fallacies, and applying formal and informal reasoning to the study of the past. Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus ABC/NC)
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
  • A3: Critical Thinking
  • Social Justice

HIST 110 History of Western Civilization I (Units: 3)
The growth of the political, economic, and cultural institutions of the Western World from the beginnings to the Renaissance.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

HIST 111 History of Western Civilization II (Units: 3)
From the Renaissance to the present.
Course Attributes:
  • C2: Humanities
  • Global Perspectives

HIST 114 World History to 1500 (Units: 3)
The world’s civilizations from 4500 B.C.E. to 1500 C.E.
Course Attributes:
  • D1: Social Sciences
  • Global Perspectives

HIST 115 World History Since 1500 (Units: 3)
The world’s civilizations from 1500 C.E. to the present.
Course Attributes:
  • D1: Social Sciences
  • Global Perspectives

HIST 120 History of the U.S. through Reconstruction (Units: 3)
History of the U.S. from Colonial times to the end of Reconstruction and the beginnings of the Industrial Age. Political, constitutional, economic, and cultural aspects of American life as they developed both nationally and locally.
Course Attributes:
  • U.S. History
  • D2: Social Sciences: U.S. Hist

HIST 121 History of the U.S. since Reconstruction (Units: 3)
History of the U.S. from the end of Reconstruction to the present. Political, constitutional, economic, and cultural aspects of American life as they developed both nationally and locally.
Course Attributes:
  • U.S. History
  • D2: Social Sciences: U.S. Hist

HIST 130 Survey of U.S. History for Foreign Students (Units: 3)
Prerequisite: Not open to students who have had U.S. history in a U.S. high school.
The American people from colonial times to the present; the development of American political, social, and economic institutions.
Course Attributes:
  • U.S. History
  • D2: Social Sciences: U.S. Hist

HIST 278 History of Latinos in the U.S. (Units: 3)
Examination of the social-cultural, economic, and political foundations of Latino History from the Spanish colonial period to the present. (This course is offered as LTNS 278 and HIST 278. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • U.S. History
  • D2: Social Sciences: U.S. Hist
  • Am. Ethnic & Racial Minorities
  • Social Justice

HIST 300GW Seminar in Historical Analysis - GWAR (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C or better; or consent of instructor.
The nature and sources of historical evidence and the tools and techniques of historical writing and interpretation; the philosophy of history. (ABC/NC grading only)
Course Attributes:
  • Graduation Writing Assessment

HIST 302 Doing Local History (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Learning the methodological skills of doing local history: the use of manuscript collections, family letters and diaries, oral history interviewing techniques, and finding little known historical collections.

HIST 303 Introduction to Oral History: Disability, Memory, and Experience (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Utilization of oral history to explore the multifaceted dimensions of ability and disability in the history of the San Francisco Bay region.

HIST 304 Teaching History with Comics (Units: 3)
Prerequisite: English 214.
Exploration of the study and teaching of the past using comic books and graphic novels produced by historians as memories and commemorations of events. Engages questions of culture, power, and empathy culminating in pedagogy-oriented projects. (Plus-minus ABC/NC, CR/NC)
HIST 313 Comparative History of Love and Sexuality (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Development of and changes in the attitudes and practices surrounding love and sexuality on selected western and non-western cultures from antiquity to the present.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

HIST 315 History of Science from the Scientific Revolution (Units: 3)
Prerequisite: ENG 214 or equivalent, or consent of instructor.
Examination of the development of modern science from the Scientific Revolution to the present and changes in the relationship between people and their environment during the transition from feudalism to capitalism and through industrialization to the modern environmental movement.
(This course is offered as HIST 315 and HUM 315. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Environmental Sustainability
• Global Perspectives

HIST 317 The Holocaust and Genocide (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Process and conditions which led to the harassment, expulsion, and extermination of the Jews during World War II; new information about the concentration camp system.
(This course is offered as HIST 317 and JS 317. Students may not repeat the course under an alternate prefix.)

HIST 320 Archaic and Classical Greece (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Political, institutional, and cultural history of Greece from the Bronze Age to the end of the Peloponnesian War.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

HIST 321 Hellenistic Greece (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Political, institutional, and cultural history of Greece from the end of the 5th century to 146 B.C.E.

HIST 322 The Roman Republic (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Political, institutional, and cultural history of Rome from the Etruscans to the outbreak of the Civil War of 49 B.C.E.

HIST 323 Imperial Rome (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Political, institutional, and cultural history of Rome from the outbreak of the Civil War of 49 B.C.E. to the council of Nicaea (325 C.E.).

HIST 324 Greek and Roman Coins in Historical Context (Units: 3)
Prerequisite: Upper division standing or consent of instructor
Exploration of the production, social function, and iconography of Greek and Roman coins and how they can help write the history of the ancient world. Study of actual ancient coins in the Lindgren Coin Collection, which includes almost 3000 silver and bronze coins.
(This course is offered as CLAR 324 and HIST 324. Students may not repeat the course under an alternate prefix.)

HIST 325 Late Antiquity (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Political, social, economic, and cultural history of the Mediterranean world from the 4th to the 8th centuries C.E. Roman Empire and its early Greek, German, and Arabic-speaking successor states.

HIST 326 The Byzantine Empire (Units: 3)
Prerequisite: ENG 214 or equivalent.
Political, social, economic, cultural history of Byzantine Empire from 7th to 15th centuries A.D.; relations of Byzantium with Germanic, Slavic, Arabic, and Turkic-speaking neighbors.
(This course is offered as MGS 510, CLAS 510, HIST 326. Students may not repeat the course under an alternate prefix.)

HIST 327 The Medieval Mediterranean (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Examination of the interaction of geography, economy, religion, state, and society in the Mediterranean from the 6th to 15th centuries and complex Christian, Muslim, and Jewish conceptualizations of culture.
Course Attributes:
• UD-C: Arts and/or Humanities
• Environmental Sustainability
• Global Perspectives

HIST 328 Early Christian Church to 313 (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Christian Church from its beginnings to the conversion of Constantine. Quest for the historical Jesus; Orthodoxy and Gnosticism; development of worship; the Apologists; the phenomenon of martyrdom.

HIST 329 Early Christian Church: 313-787 (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Christian Church from the conversion of Constantine to Iconoclasm. Establishment of the Imperial Church; monasticism; doctrinal controversies of the 4th and 5th centuries; worship; Rome, Africa, and the development of the papal primacy.
HIST 330 The Early Middle Ages (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Society and culture in early medieval Europe, up to the 12th century. (This course is offered as HIST 330 and HUM 403. Students may not repeat the course under an alternate prefix.)

HIST 331 The High Middle Ages (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Society and culture in medieval Europe from the 12th to the 14th century. (This course is offered as HUM 404 and HIST 331. Students may not repeat the course under an alternate prefix.)

HIST 334 The Renaissance (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Political and economic conditions during the 14th and 15th centuries; the rise and spread of humanism; intellectual, political, and cultural developments characteristic of the Renaissance era.

HIST 336 The Reformation (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Causes and progress of the Lutheran Reformation, variations within Protestantism, the Counter-Reformation; political and economic history of the 16th century.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

HIST 337 Knowing and Unknowing in Early Modern Europe (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Examines ideological changes in Early Modern Europe by focusing on the dichotomies of knowing and unknowing, reason and religious mysticism, science and faith.

HIST 338 Europe and the Wider World, 1348-1768 (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent

Examination of European history in a global light; impact of non-Europeans and marginalized inhabitants of Europe on political, social, economic, and intellectual developments in Europe.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
- Social Justice

HIST 342 French Revolution and Napoleon (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

The development of the Revolution in France and its colonies; rise and fall of Napoleon.

HIST 344 Nineteenth Century Europe (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Development of Western Europe from the time of the fall of Napoleon to World War I (1814-1914).

HIST 346 Recent European History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Western Europe since the eve of World War I; political and social problems originating in the conditions of the interwar period and World War II. (This course is offered as HIST 346 and IR 346. Students may not repeat the course under an alternate prefix.)

HIST 347 Women in Modern Europe (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Social, economic, political, and intellectual life of European women since 1500.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

HIST 348 Modern European Intellectual and Cultural History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

European intellectual and cultural history from the Enlightenment to the present, and how this history has reacted to the changing European social and political landscape.

HIST 349 Topics in European History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Rotating course covering the history and historiography of a particular theme, event, or problem in European History. Topics to be specified in course schedule. May be repeated when topics vary.

HIST 350 Greece and the Balkans (Units: 3)
Prerequisite: ENG 214 or equivalent.

History of Greece and the Balkans from the Fall of Constantinople to the present. (This course is offered as MGS 350 and HIST 350. Students may not repeat the course under an alternate prefix.)

HIST 351 Venetians and Ottomans in the Eastern Mediterranean and Greece (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Examination of the Republic of Venice in conjunction with the Ottoman Empire in their interactions in the eastern Mediterranean. (This course is offered as HIST 351 and MGS 351. Students may not repeat the course under an alternate prefix.)
HIST 352 From Glory to Debt: Greece from the 19th to the 21st Centuries (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of political, social, and economic crises and transformations sustained by the Modern Greek State from 1830 to the present. (This course is offered as HIST 352 and MGS 352. Students may not repeat the course under an alternate prefix.)

HIST 385 The Russian Revolution (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Crisis and collapse of Imperial Russia, traditions of the Russian revolutionaries, and rise of the Soviet Union of Stalin.

HIST 386 Soviet Russia, the West, and the Cold War (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Relations between the Soviets and the West from 1945 to 1991; nuclear arms race and geopolitical conflicts.

HIST 387 The Era of Globalization, 1968-2008 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Survey of world history between 1968 and 2008, seen as a process of globalization in the world economy and polity. Focus on fall of Soviet Bloc, rise of Islam, and emergence of new power centers in Asia and Latin America.
Course Attributes:
  • Global Perspectives

HIST 389 European International History: 1848-1918 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
International relations of the European states: diplomatic history, including the range of cultural and intellectual contacts among them.

HIST 390 Era of the World Wars 1918 to 1945 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
International relations of the European states, diplomatic history: including the range of cultural and intellectual contacts among them.

HIST 400 History of Modern European Imperialism (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Theories and ideologies of imperialism, experiences of colonial rule, and interaction within and between empires.
Course Attributes:
  • UD-D: Social Sciences
  • Global Perspectives
  • Social Justice

HIST 405 Maritime History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Investigates the ocean as an important site of historical change from 1500-present. Considers political, economic, cultural and environmental factors.

HIST 418 Society and Politics in American History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Changing nature of political patterns from the American Revolution to the present. Parties, elections, and policy-making at national level; ideological, social, and economic bases of politics.
Course Attributes:
  • U.S. History
  • Am. Ethnic & Racial Minorities
  • Social Justice

HIST 420 American Colonial History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
English colonies in North America from the settlement of Jamestown to the preliminaries of the great war for Empire. Modification of European institutions and ideals in the New World.

HIST 421 Food Fights: The Politics of American Jewish Consumption, 1654-Present (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of the politics of religion, food, and eating among Jews in the US from the late nineteenth century to the present. Focus on American Jewish foodways: cultural, social, historical, political, and economic practices of food production and consumption that have sustained and demarcated Jewish communities. (This course is offered as JS 421 and HIST 421. Students may not repeat the course under an alternate prefix.)

HIST 422 The American Revolution (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Causes of the American Revolution; the War for Independence, social and cultural change regarding gender, race, and class.

HIST 424 History of the United States: 1827-1877 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Internal development and expansion of the American people and the rise of sectional conflict, culminating in the Civil War and Reconstruction era.

HIST 426 History of the United States: 1877-1916 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
U.S. history from 1877 to 1916: impact of industrialization, urbanization, immigration on existing social and political systems.
HIST 427 History of the United States: 1916-1945 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
U.S. history from 1916 to 1945: politics of the New Era and New Deal; involvement in two world wars and its domestic impact; changing social, economic, and intellectual patterns.

HIST 428 History of the United States Since 1945 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
U.S. history since 1945: politics, foreign policy and changing social, economic, and intellectual patterns.

HIST 441 American Jews and Popular Culture (Units: 3)
Prerequisite: ENG 114 or equivalent.
Examination of presentation and participation of Jews in American popular culture of the 20th and 21st centuries. Focused on the representation of Jews and Judaism in film, television, and media. Representation of Jews and Judaism in literature, athletics, food, museums, and consumer culture also addressed. (This course is offered as JS 441, HIST 441 and HUM 441. Students may not repeat the course under an alternate prefix.)

HIST 448 The American West (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
The trans-Mississippi West in American history and thought: the century from 1846 to 1945.

HIST 449 American Jewish History (Units: 3)
Prerequisite: ENG 114 or equivalent.
American Jewish History from 1654 to the present. Traces social, political, religious and economic history of Jews in colonial America and the United States. Topics: influence of government, immigration, religion, anti-Semitism, regionalism, acculturation. (This course is offered as JS 449 and HIST 449. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• U.S. History
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Social Justice

HIST 450 History of California (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
California through the Spanish and early American periods to the present.
Course Attributes:
• Calif State & Local Govt
• UD-D: Social Sciences

HIST 451 Bay Area History and Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of the Bay Area, specifically San Francisco, Oakland, Berkeley, and San Jose, from a sociohistorical and global perspective. Exploration of various dimensions of the bay area’s human and environmental composition and history, paying special attention to the built environment, immigration, globalization, race, and class. (This course is offered as A U 303 and HIST 451. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

HIST 455 The Philippines and the United States (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Examination of the relationship between the Philippines and the U.S. and Filipinas/os and Americans over the period from the Philippine Revolution against Spain in 1896 to the present.
Course Attributes:
• U.S. History
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

HIST 460 U.S. Foreign Relations to 1913 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Establishment and transformation of American foreign relations from the revolutionary period until the eve of World War I.

HIST 461 U.S. Foreign Relations: 1913 - Present (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
The role of the U.S. in the world from 1913 to the present. Topics include: creation of American empire, emergence of U.S. as a superpower, the Cold War, U.S. in the international community.

HIST 462 Making Whites: Race-making in America (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Evolution and implications of whiteness in America from colonial period to the present post-Civil Rights, multicultural era; includes the definition of whiteness and critical role of the racial construction of whiteness in the history of American racism and race relations. (This course is offered as RRS 670 and HIST 462. Students may not repeat the course under an alternate prefix.)
HIST 464 American Ethnic and Racial Relations to 1890 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

How ideas and practices of race and ethnicity developed and changed in colonial North America and the U.S., 1600s to the 1882 Chinese Exclusion Act.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

HIST 465 American Ethnic and Racial Relations II: 1890 - Present (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Effects of ethnic and race relations on American life from the closing of the frontier to the present: Russian Jews, American Irish, Mexican Americans, Japanese, and African-Americans.
Course Attributes:
• U.S. History
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

HIST 466 History of People of Color in the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

History of the U.S. people of color, their experience in the development of American society, from the 1600s to present. Consequences of domination and racism in thwarting economic interests, and responses to limiting institutional arrangements.
(This course is offered as RRS 600 and HIST 466. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• U.S. History
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

HIST 467 Women in the U.S. to 1890 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

History of the changing social, economic, political, and intellectual life of women in the U.S., from the period of colonization to 1890.

HIST 468 Women in U.S.: 1890-Present (Units: 3)
Prerequisites: Upper division standing; ENG 214.

History of the changing social, economic, political, and intellectual life of women in the U.S., 1890 to the present.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

HIST 469 American Childhoods: Past and Present (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

American childhoods through time and across the cultures since the 17th century.

HIST 470 The U.S. Constitution to 1877 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

U.S. constitutional developments from the Magna Carta through Reconstruction. The Constitution as a living instrument, shaping and changing national trends.
Course Attributes:
• U.S. Govt CA State Local Govt
• U.S. History
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Social Justice

HIST 471 The U.S. Constitution since 1877 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

U.S. Constitutional history from the Reconstruction era to the present. The Constitution as a living instrument, shaping and changing national trends.
Course Attributes:
• U.S. Govt CA State Local Govt
• U.S. History
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Social Justice

HIST 472 The Courts, Politics and Social change in U.S. History, 1880-2000 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Examination of watershed moments in American history through court cases from the late 19th and 20th centuries. The cases include the Haymarket Anarchists trial, the Scopes trial, the Korematsu internment case, the Loving decision of 1967 and Roe v. Wade.

HIST 473 Unfree Labor in Early America (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

An examination and comparison of various forms of unfree labor in early America from the colonial period to the Civil War, tracing change over time and investigating the relationship among economic systems, ideology, and social relations.
(This course is offered as HIST 473, ETHS 473, and LABR 473. Students may not repeat the course under an alternate prefix.)
HIST 474 History of Labor in the United States (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Development of the workforce and organized labor in the U.S. Social and economic characteristics of work and the workforce; characteristics of labor organizations at different times. (This course is offered as HIST 474, ECON 474, and LABR 474. Students may not repeat the course under an alternate prefix.)

HIST 476 American Environmental History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Americans' interactions with the physical environment from the European colonial period to the present.

HIST 477 American Mass Culture I: Revolution to Railroad (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

A social and cultural approach to United States history focused on mass culture. Examination of the construction of national ideals and the shaping of a common American identity from the American Revolution to the Civil War.

Course Attributes:
- U.S. History
- Am. Ethnic & Racial Minorities

HIST 478 American Mass Culture II: Gilded Age to Digital Age (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

A social and cultural approach to United States history focused on mass culture, including mass communication, technological innovation, and popular entertainment. Examination of construction of national ideals and shaping of a common American identity, from the Gilded Age to present.

Course Attributes:
- U.S. History
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

HIST 480 Thought and Culture in America to 1880 (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

American thought and culture from colonial times to the 1880's. Intellectual movements and influential texts. (This course is offered as HIST 480 and HUM 480. Students may not repeat the course under an alternate prefix.)

HIST 481 Thought and Culture in America: 1880 to the Present (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

American thought and culture from the 1880s to the present. Intellectual movements and influential texts. (This course is offered as HIST 481 and HUM 481. Students may not repeat the course under an alternate prefix.)

HIST 482 Religion in America (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

American religion, from colonial times to the present. Changing relations between religious thought and institutions. The range and variety of forms of religious expression in an increasingly urbanized, industrialized, and organized multicultural society.

HIST 484 Disability and Culture in American (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Examination of some of the major topics in U.S. history (industrialization, Civil War, eugenics, immigration, Great Depression, social policies, etc.) through the lens of "disability".

Course Attributes:
- U.S. History
- UD-C: Arts and/or Humanities
- Social Justice

HIST 489 Dynamics of the American City (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Historical development and contemporary condition of urban America, city planning, federal-city relations; dynamics of urban policy making; class, gender, race, and ethnicity in urban America. (This course is offered as USP 400 and HIST 489. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Social Justice

HIST 490 Topics in American History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Rotating course covering the history and historiography of a particular theme, event, or problem in U.S. History. Topics to be specified in class schedule. May be repeated when topics vary.

HIST 500 Colonial Latin America (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Hispanic America from preconquest times to independence. Indian, African, and Hispanic elements in the colonization process; the new colonial culture; political, economic, religious, racial, and sexual domination, and the legacy of colonialism.

HIST 501 Latin America: The National Period (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Latin America since independence (c. 1825). Histories of Latin American peoples: culture, race relations, women, political oppression and resistance, the economy, and development. (This course is offered as HIST 501, ANTH 501, and LTNS 501. Students may not repeat the course under an alternate prefix.)
HIST 520 Central America and the Caribbean (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Political, economic, and social development from the colonial era to the present. Contemporary Central America and the Caribbean, especially post-revolutionary Cuba.

HIST 524 History of Mexico (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Mexico from colonial times to the present. Development of major economic, social, and political institutions.

HIST 528 History of Brazil (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Brazil from colonial times to the present. Role of Brazil in Latin American history, shifting patterns of economic activity, evolution of political institutions, development of cultural patterns.

HIST 535 History of Women in Latin America (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
History of the changing roles of women in Latin America from the colonial period to the present.
(This course is offered as HIST 535, WGS 535, and LTNS 533. Students may not repeat the course under an alternate prefix.)

HIST 550 Social Change in Modern Latin America (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Processes of modernization operative in various Latin American societies. 20th century developments which typify the region as a whole.

HIST 569 Ancient Chinese Civilization (Units: 3)
Prerequisites: Upper division standing; ENG 214.
The social, cultural, and political history of China, the oldest continuous civilization on earth, from the Neolithic through the end of the Tang, reconstructing the lives of philosophers, courtiers, monks, and commoners.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

HIST 570 Imperial China (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
The historical development of the Chinese empire from the budding of Neo-Confucianism, through the Mongol conquest, to the autocratic state of the Ming, down to the Manchu takeover, around 900-1700.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

HIST 571 History of Modern China (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
The rise and fall of the Ch'ing empire, the establishment of the Republic, the Communist Revolution, and its aftermath.

HIST 572 Taiwan: History, Memory, and Imagination (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Exploration of Taiwan’s colonial legacies, ethnic tensions, democratization, as well as social, cultural, demographic, and economic developments through a historical study of films and fiction. [Formerly HIST 590 - topic course]

Course Attributes:
- UD-C: Arts and/or Humanities
- Environmental Sustainability
- Global Perspectives

HIST 575 History of Women in China and Japan (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Social, cultural, intellectual, political, and economic lives of women in China and Japan.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
- Social Justice

HIST 578 History of Japan (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
The early cultural borrowings from China; the crystallization of feudal society; and the evolution of modern Japan since the Meiji restoration in 1868.

HIST 582 Tales from Ancient India: Hinduism and Buddhism (Units: 3)
Prerequisite: ENG 214.
Study of ancient Indian (Hindu and Buddhist) culture, religion, and literature. Examination of epics, plays, devotional and love poetry from Sanskrit and other Indian languages. Examination of family, gender, and patriarchy; kingship and power; heroism, love, war; ethics and devotion. (This course is offered as HIST 582, HUM 582 and CLAS 582. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HIST 583 Hindus and Muslims (Units: 3)
Prerequisite: ENG 214 or the equivalent.
Examination of the history of Hinduism and Islam, two of the world’s great religious and political traditions. Special attention to cultural productions.
HIST 584 India and the British Empire (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

History of civilization of the Indian subcontinent to the present. Addresses political, economic, social, ethnic, and linguistic factors that shaped regional development.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

HIST 585 India since Gandhi (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Introduction to themes in Indian history since the end of British colonial rule: the legacy of the British colonial empire, Gandhi and anticolonial nationalism, Nehru's vision of India, and contemporary Indian nationalism.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
- Social Justice

HIST 588 History of Southeast Asia (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Transnational history of Southeast Asia from the eleventh century to the present. Principle cultural and political areas include Burma/Myanmar, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia and the Philippines.

HIST 590 Topics in Asian History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Rotating course covering the history and historiography of a particular theme, event, or problem in Asian History. Topics to be specified in class schedule. May be repeated when topics vary.

HIST 600 Ancient Near East: Cities and Empires in Ancient Mesopotamia (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

History and culture of Ancient Mesopotamia from the Fourth Millennium B.C.E. through the creation and expansion of the Persian Empire in the First Millennium B.C.E.

HIST 603 History of the Ancient Near East: to Muhammad (Units: 3)
Prerequisites: Upper division standing, or consent of instructor; ENG 214 or equivalent.

Examination of the cultural developments, contributions, and influences of ancient Mesopotamia, Egypt, Persia, Crete, Anatolia, Greece, and Arabia from the dawn of civilization to the birth of Muhammad.

HIST 604 Islamic World I: 500 - 1500 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Islamic civilization, culture, and history from 500-1500.

HIST 605 Islamic World II: 1500 - present (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Islamic civilization, culture, and history from 1500 to the present.

HIST 606 History of Iran and Afghanistan 1500 - Present (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent, or consent of instructor.

History of Iran from the rise of the Safavid Empire to the present. Beginning with a historical background, the course moves on to examine the history of Iran in a period of colonialism, revolution, and the rise of Islam.

HIST 607 Imperialism and Nationalism in the Recent Near East (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Imperialism and colonialism in Near East (West Asia and Northern Africa) in 20th and 21st centuries, and reaction and reform within the region.

HIST 609 Approaches to the African Past (Units: 3)
Prerequisites: Upper division standing, ENG 214; or consent of instructor.

Explorations of different methodologies for studying the African past, including archaeology, anthropology, oral traditions, and history. (This course is offered as HIST 609 and ANTH 609. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

HIST 610 History of Africa (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

African cultures from the Iron Age to 1880 with emphasis on Africa south of the Sahara.

HIST 611 Modern Africa (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Rise and decline of European colonization and emergence of contemporary nationalist movements.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

HIST 612 Gender in African History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Development of competencies around the theme of gender in the African past by working with a variety of texts and sources and the scholarship of leading researchers in this field.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
HIST 619 Topics in World History (Units: 3)
Prerequisite: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Rotating course covering the history and historiography of a transnational theme, event, or problem or in an area outside of Europe, Asia, or the United States. Topics to be specified in class schedule. May be repeated when topics vary.

HIST 620 Pirates and Piracy (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Examination of factors (political, social, cultural, and environmental) that give rise to piracy, and the various forms it takes across the world from ancient to modern times.

HIST 632 Jewish History I: Beginnings to 1650 (Units: 3)
Prerequisite: ENG 214 or equivalent.
Jewish history from the sixth century B.C.E. to the rise of European modernity. Politics, culture, and religion under empires of Persia, Hellenism, and Rome, and in medieval diasporas of Europe and lands of Islam.
(This course is offered as JS 632 and HIST 632. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HIST 633 Jewish History II: 1650 to Present (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Jewish history from 1650 to present. Central theme is the encounter of traditional ethnic and religious minority with modernity. Topics: emancipation, antisemitism, immigration, Zionism, Israel, America, Holocaust.
(This course is offered as JS 633 and HIST 633. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HIST 640 Proseminar: European History (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent, HIST 300GW, or consent of instructor.
Seminar-style culminating experience focused principally on topics in European History. Topic to be specified in Class Schedule. May be repeated when topics vary.

HIST 642 Proseminar: American History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent, HIST 300GW.
Seminar-style culminating experience focused principally on topics in US History. Topic to be specified in Class Schedule. May be repeated when topics vary.

HIST 644 Proseminar in World History (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent, HIST 300GW, or consent of instructor.
Seminar-style culminating experience focused principally on a transnational theme or regional topic. Topic to be specified in Class Schedule. May be repeated when topics vary.

HIST 660 Computer Methodology for Historians (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent, and HIST 300GW,
Use of computers for on-line research and communication via the Internet, library catalogs, and similar resources.

HIST 680 Archives or Historical Agency Internship (Units: 3-4)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent; major in history; and consent of department chair.
Internship with an archive or other historical agency. Development of knowledge, experience, and training in archival or historical agency work.

HIST 681 Community Service Learning in the Schools (Units: 3)
Prerequisite: Upper division standing.
Projects in history and social studies learning at the K-12 level. Meets state early field experience requirement for multiple and single subject credential program admissions. May be repeated for a total of 6 units. [CSL may be available]
(This course is offered as LS 681 and HIST 681. Students may not repeat the course under an alternate prefix.)

HIST 690 Editing and Publishing the History Journal (Units: 1-4)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent, and HIST 300GW.
Supervised experience in editing and production of an annual journal of research. Not applicable to major or minor fields in history. May be taken for a total of 4 units. (CR/NC grading only)

HIST 697 Honors Thesis (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent, and HIST 660 (may be taken concurrently),
Tutorial leading to an honors project or thesis based on study of a topic. Topic to be determined by student and faculty member.

HIST 698 Directed Reading in History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Directed reading in selected areas of history under the supervision of a faculty member.

HIST 699 Independent Study (Units: 1-4)
Prerequisites: Consent of instructor, major adviser, and department chair.
Supervised study of a particular problem selected by the student.

HIST 700 History as a Field of Knowledge (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Seminar in the problems in the historical inquiry and facilities designed to prepare master's candidates for research and teaching.
HIST 701 The Historiography of World History (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Seminar examining the varieties of world history writing since World War II. Emphasis on the new world history approaches since the 1970s. May be repeated for a total of 6 units with a different instructor. May not repeat with the same instructor. (Plus-minus letter grade only.)

HIST 702 Sexuality in Historical Perspective (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexuality Studies or History; or consent of instructor.
Traces the growing scholarship on the historical study of sexuality primarily in the U.S. Introduces students to a variety of historical studies on sexuality and assesses the validity and value of the work. (This course is offered as SXS 702 and HIST 702. Students may not repeat the course under an alternate prefix.)

HIST 705 Approaches to History (Units: 3)
Prerequisite: HIST 700 or consent of instructor.
Broad exposure to a single approach to history in a way that would build upon and serve as a companion to HIST 700. Course readings are global in scope and cover a broad wide swath of time. Topic to be specified in the Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)

HIST 710 Seminar in Ancient and Medieval History (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in Mediterranean or global history prior to c.800. Topic to be specified in Class Schedule. May be repeated as topics vary.

HIST 720 Seminar in Medieval History (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in European or global history c.800-1400. Topic to be specified in Class Schedule. May be repeated when topics vary.

HIST 730 Seminar in Early Modern European History (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in European history c.1400-1815. Topic to be specified in Class Schedule. May be repeated as topics vary.

HIST 740 Seminar in the History of Europe Since 1815 (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in European history since 1815. Topic to be specified in Class Schedule. May be repeated as topics vary.

HIST 741 The Holocaust and Postwar Germany Taught in English (Units: 3)
Prerequisite: Graduate standing in German, History, or Jewish Studies, or consent of instructor.
The Holocaust in Postwar Germany as seen in exemplary works of literature, historical documents and Nuremberg trials. (Plus-minus letter grade only) [Taught in English]  
(This course is offered as GER 741, HIST 741, and JS 741. Students may not repeat the course under an alternate prefix.)

HIST 780 Seminar in American History To 1877 (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in U.S. history before and including the period of Reconstruction. Topic to be specified in Class Schedule. May be repeated as topics vary.

HIST 785 College Teaching of History (Units: 1-3)
Prerequisites: HIST 700 and 12 additional history units with GPA of at least 3.35.
Training and teaching of history at the college level. Pedagogical workshop and classroom experience. May be repeated for a total of 4 units for degree credit. (CR/NC grading only)

HIST 790 Seminar in American History Since 1877 (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in U.S. history since the period of Reconstruction. Topic to be specified in Class Schedule. May be repeated when topics vary.

HIST 799 Directed Historiography (Unit: 1)
Prerequisites: Graduate standing in History; concurrent with an upper division history class.
Graduate students complete additional reading during enrollment in upper division history class. May be repeated for a total of 3 units.

HIST 805 Seminar in the History of Women (Units: 3)
Prerequisite: Graduate standing in history or consent of instructor.
Topics in the history of women and feminism to be specified in Class Schedule. May be repeated when topics vary.

HIST 830 Seminar in Latin American History (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in the history of Latin America and the Caribbean. Topic to be specified in Class Schedule. May be repeated as topics vary.

HIST 840 Readings in Southeast Asian History (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Major topics and readings in Southeast Asian history, including differences among the eleven modern nations within the region; the influence of foreign powers on Southeast Asian societies; the historical role of Southeast Asia in international economic, political, and cultural exchange.

HIST 850 Topics in World History Since 1500 (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in early modern and modern global history. Courses may be thematic and transnational, or may focus on a specific region. Topic to be specified in Class Schedule. May be repeated as topics vary. (Plus-minus letter grade only)

HIST 880 Archives or Historical Agency Internship (Units: 3-4)
Prerequisites: Graduate standing in History and consent of department chair.
Internship with an archive or other historical agency. Development of knowledge, experience, and training in archival or historical agency work.
HIST 890 Editing and Publishing the History Journal (Units: 1-4)
Prerequisites: Graduate standing in History; HIST 700; and consent of instructor.

Supervised experience in editing and production of an annual journal of research. Not applicable to major or minor fields in history. May be taken for a total of 4 units. (CR/NC grading only)

HIST 896 Directed Reading in History (Units: 3)
Prerequisites: Graduate standing in History; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Directed reading in one historical field, based upon a standard bibliography and consultation with departmental specialists in that field. Not open to M.A. candidates who choose to write a thesis.

HIST 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 898, or 998, (or in some cases, courses numbered 890 - see program’s graduate advisor for further information). (CR/NC, RP)

HIST 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and candidate’s committee chair; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

HIST 899 Independent Study (Units: 1-4)
Prerequisite: Consent of the graduate major adviser, the supervising faculty member, and the department chair.

Study is planned, developed, and completed under the direction of a member of the departmental faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition.
Holistic Health (HH)

HH 200 Holistic Approach to Academic Success (Units: 3)
Concepts and skills for increased academic success, including mindfulness meditation for self-awareness, mental imagery for problem solving, and continuous improvement from an Eastern perspective. Lifelong learning, personal growth, and promoting a civil society are examined.

Course Attributes:
• E1: Lifelong Learning Develop
• D1: Social Sciences
• Environmental Sustainability

HH 205 Relaxation and Stress Reduction (Units: 3)
Research and theory in stress physiology and stress management, techniques of progressive relaxation, mental rehearsal, imagery training. Included are stress management strategies for coping with selected stress-related disorders with emphasis on relationship to physical activities.

Course Attributes:
• E1: Lifelong Learning Develop
• D1: Social Sciences

HH 210 The Dao of Well-Being in Chinese Tradition (Units: 3)
Exploration of holistic and aesthetic modes of well-being from Daoist philosophical perspectives. Topics include Daoist philosophy, classical poetry, basic principles of Chinese medicine, therapeutic cuisine, traditional music, and QiGong exercises.

Course Attributes:
• E1: Lifelong Learning Develop
• C2: Humanities
• Am. Ethnic & Racial Minorities

HH 290 Promoting Positive Health (Units: 3)
Embodied learning to promote physical, mental, spiritual and community health through yoga, dance, drawing, writing, collage, poetry and photography. Multicultural experience, active creative participation and intellectual pursuit as tools to improve flexibility and understanding, and to unlearn and heal oppression. (This course is offered as H ED 290 and HH 290. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• E1: Lifelong Learning Develop
• C1: Arts
• Global Perspectives

HH 380 Holistic Health: Western Perspectives (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Western development in holistic health. Overview of psychobiology of stress and self-regulatory methods such as: autogenic training, biofeedback, progressive relaxation, visualization, and behavioral techniques.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-B: Physical Life Science
• Global Perspectives

HH 381 Holistic Health: Eastern Perspectives (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Eastern approaches to health and healing including acupuncture, yoga, meditation. Comparison, scientific evaluation, and synthesis of eastern and western models of human psychology and physiology.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences
• Global Perspectives

HH 382 Holistic Health: Human Nature and Global Perspectives (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Explores relation between health and ways of life through understanding human nature and its potential. Health orientations of different traditions in the course of evolution and the life cycle including birth and death. Socio-psychological factors in the healing process.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Global Perspectives

HH 383 Chinese Perspectives in Holistic Health (Units: 3)
Prerequisite: Upper division standing.
Taoist philosophy of health and healing: yin-yang and five element theory, principles of qi, patterns of disharmony and health, lifestyles and environmental influences, Chinese healing modes and self practices.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences

HH 420 Chinese Body-Mind Energetics (Units: 3)
Prerequisite: Either HH 380, HH 381, HH 382, HH 383, or consent of instructor.
Examination of the nature of qi energy meridians, methods of activating and balancing qi, and various related body-mind energetic practices including acupuncture, breath-work, and QiGong meditation.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Global Perspectives

HH 430 Foundation of Biofeedback and Self-Regulation (Units: 3)
Prerequisites: One college course in biology and HH 380 or HH 381 or HH 382 or consent of instructor.
History, theory, research, physiological basis, and application of biofeedback and other self-regulatory techniques. Covers electromyographic, thermal, respiration, electrodermal, heart rate and electroencephalographic feedback techniques and self-practice of autogenic training. Classwork, 2 units; laboratory, 1 unit.

Course Attributes:
• E1: Lifelong Learning Develop
• UD-B: Physical Life Science
HH 433 Autogenic Training and Embodied Living (Units: 3)
Prerequisite: HH 380 or HH 381 or HH 382 or consent of instructor.

Basic theory and technique of autogenic training, a self-generating therapeutic approach for clinical and non-clinical applications. Includes stress reduction concepts, self-practice, and individual and group training processes.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science

HH 450 Somatic Education and Holistic Health (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Survey of somatic traditions such as Feldenkrais, Alexander Technique, Aikido, Biogenetics, Hakomi, Reflexology, Rolfing, Trager and yoga therapy. History, philosophy, and sensory awareness methods of Somatics, from a self-care education approach.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

HH 530 Herbal and Nutritional Principles in Chinese Healing (Units: 3)
Prerequisite: Either HH 380, HH 381, HH 382, HH 383, or consent of instructor.

Chinese perspectives on the role of herbs and nutrition in health and well-being, historical and philosophical aspects, use of herbs in Chinese medicine, preparation and processing, differences in individual needs.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science
- Global Perspectives

HH 535 Western Nutrition and Herbs (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

The role of herbal products, nutraceuticals, and dietary choices in prevention, disease treatment, and self-care from a holistic perspective.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science
- Global Perspectives

HH 540 Meditation and Imagery in Healing (Units: 3)
Prerequisite: HH 380 or HH 381 or HH 382 or HH 383.

Theory and methodology of various forms of imagery and meditation in promoting health and healing, neuropsychophysiological correlates, and multicultural approaches and practices.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Global Perspectives

HH 545 Imagery and Healing in Tibetan Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Mind-body healing in Tibetan medicine and culture. Theory and practical techniques, such as the use of art and symbolic imagery in meditation and everyday life, as useful approaches to health, emotional well being, and social harmony.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Global Perspectives

HH 560 Naturopathic Medicine and Personal Wellness (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of the philosophy, principles and practice of naturopathic medicine. Prevention and treatment of disease with natural therapies are examined, including diet, botanical therapies, homeopathy, hydrotherapy, and mind-body approaches.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science

HH 650 Anthroposophical Health Studies (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Principles and practices of health from an anthroposophical medicine perspective. Applications derived from Waldorf education, biodynamic agriculture, and eurythmy, all rooted in western thinking and evidence-based medicine.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Global Perspectives

HH 660 Art as Healing (Units: 3)
Prerequisite: HH 380 or HH 381 or HH 382 or HH 383, or consent of instructor.

Overview, physiology, and history of healing and art processes. Analysis and assessment of tools and techniques used in art for healing in medical and social settings. Students explore how artists work to heal individuals, communities, and ecosystems.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
HH 670 Alternative Health Practices (Units: 3)
Prerequisite: HH 380, HH 381, HH 382, or HH 383, or consent of instructor.
Overview of therapies and self-care practices in the holistic health field.
Emphasizes multidisciplinary, cross-cultural explorations of the frontiers of health and healing. Presentations by leading edge practitioners and thinkers; includes one in-depth exploration of a healing approach. May be repeated for a total of 9 units.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Global Perspectives

HH 680 Holistic Health Internship Seminar (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of issues, problems, and guidelines of practicing holistic health effectively.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

HH 690 Seminar: Psychophysiology of Healing (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Explores the psychophysiology of healing. Special emphasis upon the foundation, ramifications, and practice of therapeutic touch and healee-healer interaction. In-depth topical presentations of the healing process.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science

HH 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor and director.
Independent study under the direction of a faculty member. May be repeated provided that the area of study is different.
Hospitality & Tourism Management (HTM)

HTM 110 Introduction to Hospitality and Tourism Management (Units: 3)
Survey of trends and developments in the hospitality and tourism industry, including a total approach to lodging operations, global travel, tourism business and foodservice establishments.
Course Attributes:
• E1: Lifelong Learning Develop
• Environmental Sustainability
• Global Perspectives
• Social Justice

HTM 120 Legal Aspects of Hospitality and Tourism Management (Units: 3)
Prerequisite: HTM major; ENG 214 recommended.
Hospitality law: when a facility may refuse to serve/evict a person; legal liability to guests, children of guests, trespassers; and liability for customers’ property and autos.

HTM 300GW Hospitality Tourism Management Business Communication - GWAR (Units: 3)
Prerequisites: Upper division standing; HTM majors; ENG 214 or equivalent with a grade of C- or better.
Creating effective communication for hospitality businesses. Professional oral and written communication skills for managers interactions with guests, employees, and colleagues. Extra fee required. (Plus/minus A/B+/C/C/NC grading only; C-/CR not allowed)
Course Attributes:
• Graduation Writing Assessment

HTM 324 Historical and Contemporary Aspects of Food, Beverage, and Culture in America (Units: 3)
Prerequisite: ENG 214.
Historical and contemporary approaches to ethnic food and beverages that affect eating habits in the U.S. Social, economic, psychological, and other influences affecting food, beverages, and culture.
Course Attributes:
• UD:D: Social Sciences

HTM 339 Information Technology for International Hospitality and Tourism (Units: 3)
Prerequisite: ENG 214 or equivalent.
Information technology needs of international tourism businesses. Internet and information technology that influence multicultural hospitality and tourism worldwide businesses, customer marketing, and hospitality company goals. Emphasis on e-marketing, e-commerce, and online information distribution to commercial success. (This course is offered as HTM 339 and ISYS 339. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD:D: Social Sciences
• Global Perspectives

HTM 351 Asian Food, Culture, and Hospitality (Units: 3)
Prerequisite: ENG 214.
Asian cultures and food preferences as they relate to eating habits; the influences of social, economic, and religious factors; Asian foods as herbs and medicinal uses; etiquette and cultural aspects of dining preferences for pleasurable eating. (This course is offered as HTM 351 and CFS 351. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD:C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities

HTM 357 Food Systems in the Hospitality Environment (Units: 3)
Prerequisite: ENG 214 or equivalent.
The farm to table movement is used as a lens to explore sustainability, how food systems interact and develop and how that influences what we eat. Exploration of how food moves through the supply chain from purveyor to customer, and how the Bay area is a major influencer. Classroom, 1 unit; laboratory, 2 units. (Plus/minus letter grade only)
Course Attributes:
• Environmental Sustainability

HTM 364 Hospitality and Tourism Management Information Systems (Units: 3)
Prerequisites: HTM major; ISYS 263 or pass computer information systems proficiency test.
Discussion of technology topics that are impacting and shaping the hospitality industry today. Topics include the impact of WiFi, PCI Compliance and IT Privacy laws dealing with customer data.

HTM 400 Wine Appreciation (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The history, geography, economics, health, and legal issues of wine. Wine and food pairing; wine and food in the business setting; creating a restaurant wine list; purchasing, proper storage and inventory of wine; and an introduction into the making of beer and distilled spirits. NOTE: Students under 21 years of age may not taste wine or other alcoholic beverages and may not attend the field trip to a winery. An alternative assignment for these students will be required, which will consist of an evaluation of the major wine growing regions of the world. Extra fee required.

HTM 421 Food, Wine, and Culture in California (Units: 3)
Prerequisite: ENG 214.
Cultural and historical heritage of the food and wine industries in California, ethnic preferences for food and wine as they relate to immigration patterns, and cultural aspects of dining preferences for pleasurable eating in California.
Course Attributes:
• UD:D: Social Sciences
HTM 424 Tourism Management (Units: 3)
Prerequisites: Upper division standing; HTM 110.

A comprehensive look at the business of the global travel and tourism industry by examining the various components of tourism such as economic, social, environmental and political, their functions, and their commercial significance in today's marketplace. May be repeated for a total of 6 units.

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

HTM 425 The Business of International Tourism (Units: 3)
Prerequisite: ENG 214 or equivalent.

Multi-cultural and cross-cultural aspects of the business of international tourism outside the U.S.A. An exploration of international tourism challenges today and in the future, from managerial and travelers' perspectives. The growth of tourism and the way it may affect the future of the world economy.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

HTM 457 Restaurant Operations (Units: 3)
Prerequisites: Restricted to upper division HTM major or minor; HTM 357.

Immersive experience in restaurant operations including aspects of kitchen organization, service styles and inventory management. Food production, vendor relations, and customer service will be experienced with a focus on maximizing efficiency and profit while maintaining brand and concept integrity. Classwork, 2 units; activity, 1 unit. (Plus-minus letter grade only)

HTM 458 Hospitality Tourism Management Revenue and Cost Control (Units: 3)
Prerequisites: HTM major; ACCT 101.

Application of basic accounting techniques in the hospitality industry. Financial statement analysis; evaluation of investment decisions; review of financial statements in hotels, foodservices, and convention and event management establishments. (Plus-minus letter grade only)

HTM 515 Hospitality and Tourism Management Internship (Units: 3)
Prerequisites: Senior standing; HTM major; must have 350 hours of faculty approved hospitality industry experience and 50 hours of professional development.

Coordinated hospitality training combines practical experience with didactic academic analysis. Principles, theory and standard practices applied to operational situations. May be repeated for a total of 3 units.

HTM 531 Hospitality Services Management (Units: 3)
Prerequisites: Restricted to upper division HTM major; HTM 110; or consent of instructor.

Service management and marketing concepts in hospitality service organizations, e.g., hotels, restaurants. Development and execution plans in a service economy. Nature and characteristics of services that need to be managed and marketed due to their intangible core and more conscious aspects of service quality. (Plus-minus letter grade only; CR/NC not allowed)

HTM 557 Restaurant and Catering Management (Units: 3)
Prerequisites: HTM 110, HTM 357, and HTM 457.

Standards and theories dealing with restaurant and catering operations including marketing strategies; food purchasing, production and financial management; sanitation, safety and facility management in restaurants; menus and information system management; beverage and catering management. Required field experience accompanies lectures. (Plus-minus letter grade only)

HTM 560 Hospitality Human Resource Management (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Policies and practices in hospitality human resources management. Functions of the personnel department in planning, recruiting, selection, performance appraisal, information systems, and recent legal issues. (Plus-minus letter grade only)

HTM 561 Hotel Operation Management (Units: 3)
Prerequisites: Restricted to upper division HTM major; HTM 110 or consent of instructor.

Principles, practices, and operation of hotel facilities; operating strategies, reservation systems and operation, housekeeping, accounting, and income control. (Plus-minus letter grade only)

HTM 562 Advanced Studies in Global Hotel Operations Management (Units: 3)
Prerequisites: Restricted to seniors in HTM program; HTM 110, HTM 300GW, HTM 561.

Examination of complex issues facing the global hotel industry managers and leaders, contemporary operational issues and situations, problem solving methods, and development and implementation of strategic solutions.

Course Attributes:
- Global Perspectives

HTM 563 Hospitality and Tourism Management Planning & Development (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Issues inherent in the development and planning of hospitality facilities, specifically hotels and restaurants. Project development sequence, conceptual and space planning, architectural design criteria, construction management, and interpretation of architectural design and consultant drawings.

HTM 567 Hospitality and Tourism Internship (Units: 2-3)
Prerequisite: Upper division standing or consent of instructor.

Practical field experience in hotel/lodging, foodservice and tourism business. Individually designed for students to acquire working knowledge toward skills and/or occupation in the hospitality industry. May be repeated for a total of 6 units.
HTM 576 Meeting Planning and Convention/Event Management I (Units: 3)
Prerequisite: HTM 110 or consent of instructor.
Comprehensive examination of the business strategies for meetings, conferences, and conventions, and exhibition management including the roles of catering and banquet event management, environmental impacts, and people involved in the businesses that comprise this industry.
Course Attributes:
• Environmental Sustainability

HTM 577 Meeting Planning and Convention/Event Management II (Units: 3)
Prerequisites: Restricted to upper division HTM majors and minors; HTM 110 and HTM 576.
Comprehensive business strategies of event planning to the design and execution of meetings, conferences and catered events. Focus on every technique and tactic in the meeting manager’s skill set including design, project management, site selection and development, catering and banquet management, sales, budgeting, safety and security, environmental sustainability, and entertainment. Provides hands-on opportunities.

HTM 578 Hospitality and Tourism Management Sales and Marketing (Units: 3)
Prerequisite: HTM 110 or consent of instructor; enrollment priority given to HTM majors.
Basic elements and concepts of hotel sales and marketing. Problems and characteristics specific to the hotel industry. Sales and marketing process, marketing research, buyer behavior, product strategy, channels of distribution, promotional activity and pricing decisions.

HTM 590 Integrated Seminar in Hospitality and Tourism Management (Units: 3)
Prerequisites: Restricted to senior HTM majors; MKTG 431, HTM 531.
Integration of disciplines within hospitality and tourism management. Application of theoretical knowledge and trends. Development of conceptual, analytical, decision-making, and evaluative skills. (Plus-minus letter grade only)

HTM 595 Selected Topics in Hotel Administration (Units: 3)
Prerequisite: Upper division standing.
Major issues facing the hotel industry. Strategies to minimize or maximize the issues. (Plus-minus letter grade only)

HTM 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.
Intensive problem analysis under the direction of a faculty member. Open only to upper division students who have demonstrated ability to do independent work.

HTM 831 Services Operations Management (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Examination of managerial services and quality services delivery to consumers across industry sectors. Service strategy is analyzed with emphasis on customer expectations, process flow improvement, and managing capacity. (Plus-minus letter grade only)

HTM 850 Seminar in Emerging Issues in Hotel Operation Management (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Rapidly growing lodging industry, challenges facing contemporary managers, trends and research, and reading and writing professional papers. (Plus-minus letter grade only)

HTM 858 Principles of Yield and Revenue Management (Units: 3)
Prerequisites: BUS 776 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Introduction to the analytical processes and execution techniques used to increase revenue for operations, time-based inventory; theoretical levers that enable revenue management including demand forecasting and the analysis of operational flexibility. (Plus-minus letter grade only)

HTM 860 Strategic Human Resources Management (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Examination of concepts, framework, and skills essentials to leveraging the human capital in service business where employees are critical to operational success. Issues will be investigated from both a strategic and tactical level. (Plus-minus letter grade only)
Humanities (HUM)

HUM 130 The Humanities: Major Works (Units: 3)
Major works from several places and times, including the present, with the aim of perceiving their significance in human culture and creating meaningful individual relationships with them.
Course Attributes:

• C3: Humanities: Literature

HUM 205 Asian Art History (Units: 3)
Conceptual and technical relationship of visual form to values in the art of China, Korea, Japan, India, Tibet, and South-East Asia. (This course is offered as ART 205 and HUM 205. Students may not repeat the course under an alternate prefix.)
Course Attributes:

• C1: Arts
• Global Perspectives

HUM 220 Values and Culture (Units: 3)
Prerequisite: ENG 114 or equivalent.
Significant works of cultural expression with respect to their aesthetic dimensions, their historical contexts, and their illumination of human value patterns. At least one non-western work is studied.
Course Attributes:

• C2: Humanities
• Global Perspectives

HUM 225 Values in American Life (Units: 3)
Values that American thinkers, writers, artists, and designers have expressed within a developing culture; the diversities as well as the unities in the American experience and on the contributions of ethnic minorities to American society and its values.
Course Attributes:

• C2: Humanities
• Am. Ethnic & Racial Minorities

HUM 271 The Classic Chinese Novel in Contemporary Pop Culture (Units: 3)
Exploration of legacy of China’s four great classic novels in contemporary Chinese popular culture. Analysis of original works and their adaptation in TV shows and cinema, fiction, computer games and theme parks. (This course is offered as CHIN 271 and HUM 271. Students may not repeat the course under an alternate prefix.)
Course Attributes:

• C2: Humanities
• Global Perspectives
• Social Justice

HUM 300GW Junior Seminar Humanities Writing - GWAR (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of C or better.
Introduction to the practices of observation, comparison, and expression characteristic of interdisciplinary humanities as a field; development of skills in interpreting and writing essays on various expressive forms. (ABC/NC grading only)
Course Attributes:

• Graduation Writing Assessment

HUM 301 Form and Culture (Units: 3)
Prerequisite: ENG 114.
Interpretation of works and the relationship between form and content in a variety of expressive modes. Reading of selected visual, musical, and written works from various times and places.

HUM 302 Theories and Methods in the Humanities (Units: 3)
Prerequisite: ENG 114
Development and broadening of the student’s acumen in the arts per se and in the arts as means of cultural comparison, through the study and use of major critical methods.

HUM 303 History and Culture (Units: 3)
Prerequisite: ENG 114
Development of the capacity for historical thinking through analysis of expressive forms generated within particular cultures. Variety of cultures and range of verbal and non-verbal forms of expression.

HUM 315 History of Science from the Scientific Revolution (Units: 3)
Prerequisite: ENG 214 or equivalent, or consent of instructor.
Examination of the development of modern science from the Scientific Revolution to the present and changes in the relationship between people and their environment during the transition from feudalism to capitalism and through industrialization to the modern environmental movement. (This course is offered as HIST 315 and HUM 315. Students may not repeat the course under an alternate prefix.)
Course Attributes:

• UD-C: Arts and/or Humanities
• Environmental Sustainability
• Global Perspectives

HUM 320 Music, Ideas, and Culture (Units: 3)
Prerequisite: ENG 214.
Functions of music in diverse social and cultural traditions; relation to other arts and disciplines. Writings of philosophers, critics, musicologists and musicians about music. (This course is offered as HUM 320 and MUS 446. Students may not repeat the course under an alternate prefix.)
Course Attributes:

• UD-C: Arts and/or Humanities
HUM 321 Jazz and Blues in Film (Units: 3)
Prerequisite: Upper Division Standing
Survey of the history and impact of jazz and blues on the Hollywood film industry from the early “soundies” and “The Jazz Singer” to modern day blockbusters. Noted jazz composers such as Henry Mancini, Quincy Jones, and Olive Nelson will be included, as well as works by jazz-influenced composers of the 1970's film era, such as Marvin Gaye, Isaac Hayes, and Melba Liston. (This course is offered as MUS 507, HUM 321, and THA 507. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

HUM 325 Comics and Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor
Introduction to the scholarly study of comic books and graphic novels. Emphasis on formal analysis, historical antecedents and developments, cross-cultural comparison, and comparison of comics with other cultural forms. Focus on what it means to make comics, as well as analyze them, through in-class and homework activities.

HUM 345 Humanism and Mysticism (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Comparative study of humanistic and mystical thoughts; ways in which these two traditions have developed and affected human civilization.
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 360 Styles of African Cultural Expression (Units: 3)
Prerequisite: ENG 114.
Variety of sub-Saharan African cultural styles before, during, and after White rule. Traditional and modern expression in many genres: genres created in Africa and Western genres transformed by Africans.

HUM 361 Cultural Expression in Islam (Units: 3)
Prerequisite: ENG 114 or equivalent.
Classic works of Islamic holy/ secular texts; art, architecture, novels, poetry, film. How great works characterize, symbolize, or are emblematic of specific intellectual environments, representing different times, places and diverse populations in Islamic civilization, including non Muslims.
Course Attributes:
- Global Perspectives

HUM 366 India’s Gandhi (Units: 3)
Prerequisite: ENG 114 or equivalent.
The complexity of Gandhi’s values and ideas; major Eastern and Western influences on him; the admixture in his philosophy, literature, and politics.

HUM 368 The Art(s) of Ritual: A Cross-Cultural Approach (Units: 3)
Prerequisite: ENG 114.
Exploration of how ritual performances produce, communicate, preserve and modify meanings and values across diverse cultures and contexts. Focus on private, communal, secular and sacred rituals.

HUM 372 Critical Political Theory (Units: 4)
Prerequisite: ENG 214.
Focus on the critical tradition in political theory that responds to and differentiates itself from classical and modern canonical texts. (This course is offered as POLS 372, HUM 372, and IR 372. Students may not repeat the course under an alternate prefix.)

HUM 375 Biography of a City (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of the cultural life and history of a particular city. Focus on significant historical moments, urban spaces, and arts and culture of the city in question. Cities to be specified in Class Schedule. May be repeated as focal cities vary.
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 376 San Francisco (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Investigation of San Francisco as a center of intellectual, social, and cultural life. Some sections offer field trips and tours.
Course Attributes:
- UD-C: Arts and/or Humanities
- Environmental Sustainability

HUM 377 Jerusalem (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
The dynamics of Jerusalem’s intellectual, artistic, and social life with emphasis on the great works that symbolize the contribution of that city to human culture. (This course is offered as HUM 377 and JS 377. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 378 Athens (Units: 3)
Prerequisite: ENG 214.
Exploration of the city of Athens from the ancient to the modern periods, including contemporary times; focus on key moments in the city’s multi-layered history as well as enduring cultural values and global impact. (This course is offered as HUM 378 and MGS 378. Students may not repeat the course under an alternate prefix.)

HUM 380 Nature and Human Values (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of classic and contemporary writings and works of art that explore human beings’ place in the natural world.
Course Attributes:
- Environmental Sustainability
HUM 390 Images of Eroticism (Units: 3)
Prerequisite: ENG 114 or consent of instructor.
Ways in which human sexuality, both the socially acceptable varieties and those practices which different societies attempt to prohibit, are represented in the art and literature of cultures in different historical periods.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

HUM 401 Ancient Greek Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to ancient Greek literature in its social and historical context. (This course is offered as CLAS 410 and HUM 401. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

HUM 402 Ancient Roman Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to ancient Roman literature in its social and historical context. (This course is offered as CLAS 415 and HUM 402. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

HUM 403 The Early Middle Ages (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.
Society and culture in early medieval Europe, up to the 12th century. (This course is offered as HIST 330 and HUM 403. Students may not repeat the course under an alternate prefix.)

HUM 404 The High Middle Ages (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Society and culture in medieval Europe from the 12th to the 14th century. (This course is offered as HUM 404 and HIST 331. Students may not repeat the course under an alternate prefix.)

HUM 405 Art, Literature, and Power in the Renaissance (Units: 3)
Prerequisite: ART 201 or ART 202 or equivalent.
European renaissance and baroque art and literature, related to power structures affecting all aspects of culture and society. (This course is offered as ART 405 and HUM 405. Students may not repeat the course under an alternate prefix.)

HUM 407 Romanticism and Impressionism (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
A variety of European and American expressive forms (literature, visual arts, music, philosophy) and their contexts from the Napoleonic Era to the beginning of World War I.

HUM 410 The Modern Revolution (Units: 3)
Prerequisite: ENG 114 or equivalent.
Society, literature, thought, and art, and their interrelationships in late 19th and early 20th century Western culture; impact on cultural life of science, social crisis, and end of Western cultural isolation. (Not open to students who have completed PHIL 304.)

HUM 415 Contemporary Culture (Units: 3)
Prerequisite: ENG 114 or equivalent.
Issues and achievements in art, thought, and society during the 20th century; literature, fine arts, philosophy, and history.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

HUM 423 Going Medieval: Comparative Medieval European Literature (Units: 3)
Prerequisite: CWL 214 or ENG 214 or equivalent.
A survey of the major genres of Medieval European vernacular writing in translation, including epic, romance, tale collections, and lyric poetry. (This course is offered as CWL 423 and HUM 423. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

HUM 424 Multicultural Middle Ages (Units: 3)
Prerequisite: CWL 214 or ENG 214 or equivalent.
A survey of medieval European representations of the Islamic world, as reflected in the major genres of epic, romance, tale collections, travel writing, and lyric poetry. (This course is offered as CWL 424 and HUM 424. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

HUM 425 Thought and Image: Humanities (Units: 3)
Prerequisite: ENG 114 or equivalent.
Works in the humanities and creative arts studied in terms of the unique ways the meanings, values, and forms reflect their cultures of origin. Works from at least two global cultures will be included.

HUM 432 Nietzsche and Postmodernism (Units: 3)
Prerequisite: ENG 214.
Examines the most radical implications of Nietzsche's critique of western humanism. Close reading of major writings by Nietzsche and selected "postmodern" readings of Nietzsche. (This course is offered as HUM 432 and PHIL 432. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
HUM 434 Arendt and Heidegger (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.

Hannah Arendt, a student of Heidegger, is renowned in her own right as philosopher and political theorist. In a comparative study explore the relationship of their ideas, and question the extent to which she was disciple or critic. (This course is offered as HUM 434, JS 414, and PHIL 434. Students may not repeat the course under an alternate prefix.)

HUM 441 American Jews and Popular Culture (Units: 3)
Prerequisite: ENG 114 or equivalent.

Examination of presentation and participation of Jews in American popular culture of the 20th and 21st centuries. Focused on the representation of Jews and Judaism in film, television, and media. Representation of Jews and Judaism in literature, athletics, food, museums, and consumer culture also addressed. (This course is offered as JS 441, HIST 441 and HUM 441. Students may not repeat the course under an alternate prefix.)

HUM 450 California Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Dynamics of California society and culture in recent times; world oasis, flawed paradise, lifestyle crucible, and creative milieu; function in American culture and Pacific relations. (This course is offered as HUM 450 and AMST 410. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 455 Humanities of the Americas (Units: 3)
Prerequisite: ENG 114 or equivalent.

Humanities of American cultures emphasizing Latin America and the Caribbean. Cultural/historical framework for study of ancient, colonial, and modern humanistic expressions in architecture, folk arts, poetry, painting, murals, cinema, music.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 470 American Autobiography (Units: 3)
Prerequisite: ENG 114 or equivalent.

Reading and critical analysis of selected American autobiographies from the colonial period to the late 20th century.

HUM 480 Thought and Culture in America to 1880 (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

American thought and culture from colonial times to the 1880’s. Intellectual movements and influential texts. (This course is offered as HIST 480 and HUM 480. Students may not repeat the course under an alternate prefix.)

HUM 481 Thought and Culture in America: 1880 to the Present (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

American thought and culture from the 1880s to the present. Intellectual movements and influential texts. (This course is offered as HIST 481 and HUM 481. Students may not repeat the course under an alternate prefix.)

HUM 485 The Arts and American Culture (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Figures in visual, literary, and performing arts who have reflected American culture through mastery of their arts; relationships between arts in periods of American cultural development. (This course is offered as HUM 485 and AMST 310. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

HUM 490 American Images: Photography and Literature (Units: 3)
Prerequisite: ENG 114.

Selected American photographers and the relationship of their photographs to contemporary literary texts.

Course Attributes:
- UD-C: Arts and/or Humanities

HUM 496 Islam and the Poetics of Space (Units: 3)
Prerequisite: ENG 114 or equivalent.

The built environment of Islam through critical reading of art, film, literature. How places take on meaning through use and perception, sensitive to time, place, ethnicity, gender, class, and ideology.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 501 Judaism, Christianity, and Islam (Units: 3)
Prerequisite: ENG 114 or equivalent.

Beliefs, practices, social organization, and history of the three monotheistic religious traditions; importance of these traditions for European and Middle Eastern civilizations. (This course is offered as JS 501, PHIL 501, and HUM 501. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 507 Art of China (Units: 3)
Prerequisite: ART 205 or equivalent.

Historical development of painting, sculpture, and other arts in China from earliest times to the 19th century within the larger context of Chinese culture. (This course is offered as ART 507 and HUM 507. Students may not repeat the course under an alternate prefix.)
HUM 510 Comparative Form and Culture (Units: 3)
Prerequisite: ENG 114 or equivalent.
Parallel forms of thought, feeling, and cultural expression in particular
cultural areas interacting with each other, through consideration of
architectural, musical, literary, pictorial, and critical works.

HUM 520 North and South American Cultural Expression (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Values, ideas, and creative styles of North and South American cultures
through comparisons of literary artistic and architectural creations from
each culture.
(This course is offered as HUM 520 and LTNS 520. Students may not
repeat the course under an alternate prefix.)

HUM 526 Culture of Japan before 1850 (Units: 3)
Prerequisite: ENG 114 or equivalent.
Japanese literature, art, architecture, religion, aesthetic theory, and other
forms of thought and image prior to 1850, studied in the context of the
world view of the Japanese.

Course Attributes:

- Global Perspectives

HUM 527 Japan and Modernity (Units: 3)
Prerequisite: ENG 114 or equivalent.
Japanese literature, art, architecture, religion, aesthetic theory, and other
forms of thought and image since 1850 studied in the context of the
world view of the Japanese.

Course Attributes:

- Global Perspectives

HUM 530 Chinese Civilization (Units: 3)
Prerequisite: ENG 214 or equivalent.
Formation and development of Chinese civilization; intellectual
movements examined in their historical context; ideas expressed in
literary, visual, and performance arts.

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 531 Images of Modern China (Units: 3)
Prerequisite: ENG 114 or equivalent.
An introduction to modern Chinese culture through close reading of
literature, historical documents, visual arts and film. All works read in
translation.

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 532 From Ghost Stories to Short Stories: Japanese Fiction in
Comparative Contexts (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of formal transformations in Japanese prose fiction through
comparison with other literary traditions; focus on questions of tradition,
influence, genre, and translations.
(This course is offered as CWL 432 and HUM 532. Students may not
repeat the course under an alternate prefix.)

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 535 Classical South Asian Cultural Forms (Units: 3)
Prerequisite: ENG 114 or equivalent.
Literature, philosophy, religion, art, architecture and music of Ancient and
Medieval South Asia.

HUM 536 Modern South Asian Cultural Forms (Units: 3)
Prerequisite: ENG 114 or equivalent.
Literature, philosophy, religion, art, architecture, theater, music, film and
media of Modern South Asia.

HUM 550 The Art of Autobiography (Units: 3)
Prerequisite: ENG 114 or equivalent.
Explores efforts to understand and give form to the self in religious and
secular writings, self-portraits, film, with focus on culturally distinct forms
of self-expression and on the construction of the self in narrative and
image.

HUM 582 Tales from Ancient India: Hinduism and Buddhism (Units: 3)
Prerequisite: ENG 214.
Study of ancient Indian (Hindu and Buddhist) culture, religion, and
literature. Examination of epics, plays, devotional and love poetry from
Sanskrit and other Indian languages. Examination of family, gender, and
patrarchy; kingship and power; heroism, love, war; ethics and devotion.
(This course is offered as HIST 582, HUM 582 and CLAS 582. Students
may not repeat the course under an alternate prefix.)

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

HUM 690 Senior Seminar in the Humanities (Units: 3)
Prerequisite: Senior standing.
Integration of students’ interdisciplinary education through preparation
and revision of a substantial piece of work. An aspect of human
experience explored in culturally diverse works.

HUM 699 Independent Study (Units: 1-4)
Prerequisites: Previous humanities courses providing evidence of the
student’s ability, and consent of instructor.
Independent inquiry into a specific problem formulated by the student
and approved by a member of the department who will judge the
student’s findings.
HUM 700 Introduction to Integrative Study (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Examination of the origins, traditions, and current practices of integrative humanities.

HUM 701 Fine Arts in the Humanities (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Character and province of the fine arts; ways artistic principles and experience form relationships with other disciplines and experience.

HUM 702 Literature in the Humanities (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Character and province of literature; ways literary principles and experiences form relationships with other disciplines and experience.

HUM 703 History in the Humanities (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Character and province of history; the ways historical principles and experience form relationships with other disciplines and experience.

HUM 704 Philosophy in the Humanities (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Character and province of philosophy; ways philosophical principles and experience form relationships with other disciplines and experience.

HUM 710 Seminar in European Forms and Culture (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Relations of art and thought to society in European culture. Nature of the relationship among the arts, thought, and society at selected historical moments.

HUM 711 Seminar in American Forms and Culture (Units: 3)
Prerequisite: Consent of graduate major adviser or American Studies adviser or instructor.
Relations of art and thought to society in American culture. Nature of the relationship among the arts, thought, and society at selected historical moments.

HUM 712 Seminar in African Forms and Culture (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Relations of arts and thought to society in Africa. Nature of the relationship among the arts, thought, and society at selected historical moments.

HUM 713 Seminar in Asian Forms and Culture (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Relations of art and thought to society in Asia. Nature of the relationship among the arts, thought, and society at selected historical moments.

HUM 720 Humanistic Themes (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Interdisciplinary approaches to the analysis of major themes in Humanistic works and the study of the modalities of the thematic approach to cultural analysis.

HUM 721 Culture and Style (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
Analysis and interpretation of historic cultures and the evolution of distinctive styles of expression within particular cultural settings.

HUM 723 Contemporary Humanistic Scholarship (Units: 3)
Prerequisite: Consent of graduate major adviser or instructor.
A 20th century scholar whose work has been significant in several disciplines: his/her developments; the problems of knowledge, method, and culture which he/she examined; the intellectual tensions which influenced him/her; the result of his/her work.

HUM 725 Great Theorists: Walter Benjamin (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Walter Benjamin, one of the premier thinkers of the 20th century, and a major influence on figures such as Hannah Arendt, Jacques Derrida, Michel Foucault and others. To thoroughly examine Benjamin is to make inquiries into the basis of thought for the previous century as well as our own. (This course is offered as PLSI 786, GER 786, and HUM 725. Students may not repeat the course under an alternate prefix.)

HUM 896 Directed Study of Humanistic Works (Units: 3)
Prerequisites: Advancement to candidacy for the master's degree and acceptance for culminating experience by graduate faculty member.
Concentrated tutorial study of primary major humanistic works selected for the comprehensive examination. Course credit contingent upon satisfactory completion of comprehensive examination.

HUM 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 896, or 998, or in some cases, courses numbered 890 - see program's graduate advisor for further information). (CR/NC, RP)

HUM 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

HUM 899 Independent Study (Units: 1-3)
Prerequisites: Consent of graduate major adviser and supervising faculty member.
Individual study for selected master's degree candidates, pursued under special arrangements with a member of the department faculty.
Information Systems (ISYS)

ISYS 198 Information Systems Spreadsheet Make-Up (Unit: 1)
Prerequisite: Consent of instructor.
Additional study to make up the spreadsheet component of otherwise equivalent courses in order to receive full credit. (CR/NC grading only)

ISYS 263 Introduction to Information Systems (Units: 3)
Prerequisite: GE quantitative reasoning course or DS 212.
Application of information systems (IS) in a business environment. Topics include information technology (IT), networks and internetworks, types of information systems and their development, problem solving using end-user tools, and social impact of IT. Classwork, 2 units; laboratory, 1 unit.

ISYS 338 Information Technology in a Global Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Study of increasingly interconnected technology and sharing of information in the 21st century. The important role technology plays in the U.S. and the world. Exploration of the information age in several social contexts. (This course is offered as ISYS 338 and CSC 338. Students may not repeat the course under an alternate prefix.)

ISYS 339 Information Technology for International Hospitality and Tourism (Units: 3)
Prerequisite: ENG 214 or equivalent.
Information technology needs of international tourism businesses. Internet and information technology that influence multicultural hospitality and tourism worldwide businesses, customer marketing, and hospitality company goals. Emphasis on e-marketing, e-commerce, and online information distribution to commercial success. (This course is offered as HMT 339 and ISYS 339. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

ISYS 350 Building Business Applications (Units: 3)
Prerequisite: ISYS 263 with a grade of C- or better.
Development of a multi-tier e-business application using high level tools. Design and implement a business rule tier, presentation tier, and data access tier in order to rapidly deliver innovative and extensible business solutions. Mini-projects culminate into a complete solution for an e-business application.

ISYS 363 Information Systems for Management (Units: 3)
Prerequisites: ISYS 263 and ACCT 100 with grades of C- or better.
Information systems for management decision-making. Information system development from the end-user’s perspective. Applications software used to develop solutions to business problems. Classwork, 2 units; laboratory, 1 unit.

ISYS 463 Information Systems Analysis and Design (Units: 3)
Prerequisites: ISYS 350 and ISYS 363 with grades of C- or better.
Analysis and design of computer-based information systems. Classwork, 2 units; laboratory, 1 unit.

ISYS 464 Managing Enterprise Data (Units: 3)
Prerequisites: ISYS 363 and ISYS 350 with grades of C- or better.
Principles and use of database management systems in business. Database design and implementation. Database definition, manipulation and control using SQL. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ISYS 471 E-Commerce Systems (Units: 3)
Prerequisite: ISYS 363 with a grade of C- or better.
Electronic commerce systems including E-commerce models, the technologies behind E-commerce, and planning and implementing E-commerce systems. Classwork 2 units; laboratory 1 unit.

ISYS 475 Building Web Applications with Open Source Software (Units: 3)
Prerequisites: ISYS 363 and ISYS 350 with grades of C- or better.
Concepts, techniques, and tools to develop Internet-oriented business application systems with emphasis on the web. Classwork, 2 units; laboratory, 1 unit.

ISYS 512 Business Application Design and Development with .NET (Units: 3)
Prerequisites: ISYS 350 and ISYS 363 with grades of C- or better.
Theory and practice of distributed business application design and development. Architecture and components of a business application system, how to design and develop a business application, and how to develop the web-based components of a business application. (Plus-minus letter grade only)

ISYS 556 Building Mobile Business Applications (Units: 3)
Prerequisites: Upper division standing; ISYS 350 or one semester of programming with a grade of C- or better.
Design and develop applications for mobile devices including tablet computers and smartphones. Building successful business applications for mobile devices that interfaces with backend system. Lecture, 2 units; laboratory, 1 unit. [Formerly ISYS 573 - topic Building Mobile Business Applications]

ISYS 557 Managing Open Source (Units: 3)
Prerequisites: Restricted to seniors only; ISYS 363.
Detailed study of the management of open source software and related processes: open source management issues, integration of open and proprietary software, licensing, copyright and intellectual property rights. Also examines open source business models in the enterprise. [Formerly ISYS 573 - topic Managing Open Source]

ISYS 565 Managing Enterprise Networks (Units: 3)
Prerequisite: ISYS 363 with a grade of C- or better.
Hardware and software for communications and their application to the distributed data processing environment. Terminal-to-host communication, local and wide area networks, transaction processing monitors. Classwork, 2 units; laboratory, 1 unit.

ISYS 567 Information Systems Internship (Units: 3)
Prerequisites: ISYS 363; completed an application form; a minimum GPA of 3.0 in ISYS courses; consent of instructor.
Provides Information Systems majors the opportunity to participate in a field experience in their chosen concentration. Major report required.
ISYS 568 Multimedia Business Applications Development (Units: 3)
Prerequisite: ISYS 363 with a grade of C- or better.
Methodology and tools for the development of multimedia business applications. Classroom, 2 units; laboratory, 1 unit.

ISYS 569 Information Systems for Business Process Management (Units: 3)
Prerequisite: ISYS 363 with a grade of C- or better.
Design of information systems that closely aligned with business processes; business modeling languages and techniques; real world applications. (Plus-minus letter grade only)

ISYS 575 Information Security Management (Units: 3)
Prerequisite: ISYS 363 with a grade of C- or better.
Information security from a management perspective. Identification of organization’s information assets, threats to these assets, information security strategy to protect assets. Classroom, 2 units; laboratory, 1 unit.

ISYS 650 Business Intelligence (Units: 3)
Prerequisite: ISYS 363.
Analysis and design of business intelligence systems that are aligned with business processes. Identification and use of business data, (re)design of information and knowledge systems, business modeling methodology. Classroom, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

ISYS 663 Information Technology Project Management (Units: 3)
Prerequisite: ISYS 350 or ISYS 363 with a grade of C- or better.
Managing information technology projects including both technical and behavioral aspects, Managing IT project scope, cost, time, quality, risk, human resources, communications, procurement, and outsourced IT projects. Senior IT management role.

ISYS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.
Intensive problem analysis under the direction of a business computer information systems faculty member. Open only to upper division students who have demonstrated ability to do independent work.

ISYS 814 Information Systems for Strategic Advantage (Units: 3)
Prerequisites: BUS 782. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
In depth treatment of three topics: derivation of an Information Systems (IS) strategy, specification of information system requirements, and design and implementation of an information-based solution. (Plus-minus letter grade only)

ISYS 850 Seminar in Business Intelligence (Units: 3)
Prerequisites: BUS 782. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Tools and techniques for extracting business intelligence from data to support strategic decision making. Applications of business intelligence and analytics methodologies in different functional areas. Managerial implications. (Plus-minus letter grade only)

ISYS 856 Enterprise Mobile Applications (Units: 3)
Prerequisites: BUS 782. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Focus on enterprise mobile technologies in the workplace that enable new business models to connect customers and enterprises; Design Thinking methodology to facilitate the creative design of enterprise mobile strategy and solutions; employment of Enterprise Resource Planning (ERP) mobile development platform to help prototype and develop innovative mobile solutions. (Plus-minus letter grade only)

ISYS 869 Business Process Management (Units: 3)
Prerequisites: BUS 782. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Design of business processes and their implementation through change management. Modeling and analysis of business processes. (Re)design and implementation of systems that enable them. Business modeling languages and techniques. (Plus-minus letter grade only)

ISYS 871 Electronic Commerce (Units: 3)
Prerequisites: BUS 782. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

ISYS 882 Managing the Digital Enterprise (Units: 3)
Prerequisites: ISYS 814 or equivalent. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Principles and practice of managing information technology and digital enabled processes of an enterprise. Strategic, tactical, and operational planning for integration of IT throughout an enterprise.

ISYS 895 Research Project in Information Systems (Units: 3)
Prerequisites: ISYS 814 and 3 800-level required courses in student’s emphasis. Open only to computer information systems and electronic commerce MSBA candidates; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Research methodology and supervised research culminating in oral and written presentations. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by Graduate Studies before registration. (Plus-minus letter grade; no CR/NC allowed; RP)

ISYS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.
Intensive study of a particular problem under the direction of an Information Systems faculty member. Open only to graduate students of demonstrated ability to do independent work. (Plus-minus letter grade only)
Instructional Technologies (ITEC)

ITEC 299 How to Learn with Your iPod (Units: 3)
How to identify your learning preferences and styles, create learning strategies to improve and augment learning, and use a variety of learning aids and devices to support learning. E-learning aids to include Podcasts, web searches, electronic note-taking, cell phones, blog and wikis, intelligent tutors, etc.
Course Attributes:
- E1: Lifelong Learning Develop

ITEC 315 Learning 21st Century Skills with Emerging Instructional Technologies (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Acquiring essentials of learning 21st century skills such as problem solving, critical thinking, creativity, and collaboration using cutting edge digital technologies within the framework of contemporary learning theory/instructional design principles. Interaction with and examination of an array of software applications to develop 21st century skills.
Course Attributes:
- Social Justice

ITEC 333 Digital Pioneers: Creating Innovative Digital Entrepreneurs (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Learning and practice in advanced digital literacy; production and critical evaluation of digital products; create and evaluate personal product. Students advance from naive digital creators to apprentice-level experts, manage and produce effective and innovative digital products, and learn critical evaluation techniques to validate product, sources, and online presence. (Plus-minus letter grade only)
Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

ITEC 487 Children and Television (Units: 3)
Prerequisite: Upper division standing.
How children use and are affected by mass media, particularly television. Theory and research describing children and television. Role of television in children's development. (This course is offered as BECA 487 and ITEC 487. Students may not repeat the course under an alternate prefix.)

ITEC 601 Computer Fundamentals for Teachers (Unit: 1)
Prerequisite: Senior standing.
Basic computer skills as they apply to teaching. Development of competencies in operation and care of computer-related hardware, basic trouble-shooting techniques, appropriate uses of computer-based technology in teaching and learning, and evaluation of educational software. Students will demonstrate basic skills in writing, presentation, e-mail, and database software as applied to instruction.

ITEC 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor. Open to regularly enrolled students only.
An intensive study of a particular problem under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair.

ITEC 700 Strategic Approaches for Instructional Technologies (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Utilize current recognized strategic approaches and procedures to design and develop your professional collateral or brand, your instructional technologies area(s) of expertise, and your workplace, introduction to your new or updated career. Self-directed projects guide you to your results.

ITEC 711 Instructional Computing in Elementary and Middle Schools (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Practice with computers in laboratory classroom; instructional applications of software. Integration of computing in teaching and in determining appropriate uses of technology. Equivalent to ITEC 712. Cannot be applied to degree in instructional technologies. Meets multiple subject credential state requirements.

ITEC 712 Instructional Computing in Secondary Schools (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Practice with computers in laboratory classroom; software applications in the secondary school classroom. Integrating computing in teaching and determining appropriate use of technology. Equivalent to ITEC 711. Cannot be applied to degree in instructional technologies. Meets single subject credential state requirements.

ITEC 715 Foundations of Instructional Multimedia (Units: 3)
Prerequisite: ITEC 740 or equivalent.
Plan, design, and develop computer-based multimedia using current theories and practices. Includes graphic screen design, navigation, user interface design, and audio and video files. Components are combined using authoring software into a working interactive project.

ITEC 720 Fieldwork in Educational Technology (Units: 3-5)
Prerequisites: At least 12 units in Instructional Technology including ITEC 801, and consent of instructor.
Students work in educational and business settings to select, design, create, and/or evaluate instructional materials and procedures.

ITEC 740 Computer Design of Instructional Graphics I (Units: 3)
Prerequisite: Demonstration of computer literacy.
Theories of visual communication and graphic design as the foundation for development of instructional computer graphics using industry standard graphic software applications. Image manipulation and typography skills support projects for computer presentations multimedia, Web and print.

ITEC 745 Instructional Web Authoring I (Units: 3)
Prerequisite: ITEC 715 or ITEC 740.
ITEC 770 Instructional Videography I (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Introduction to the design and production of instructional videos. Develop and produce video projects. Acquire technical competence in visualizing, scripting, aesthetics, shooting, editing, and field testing. May be repeated once for credit with instructor's permission.

ITEC 800 Theoretical Foundations of Instructional Technologies (Units: 3)
Prerequisite: Graduate standing or consent of instructor. Cannot be taken concurrently with ITEC 700.

Conceptual orientations to the theoretical structures that form the foundation of instructional systems message design: learning theories, instructional psychology, and instructional systems theory.

ITEC 801 Instructional Systems Design (Units: 3)
Prerequisite: ITEC 800.

Acquisition of competency in the design and development of instruction under the principles of cognitivism and instructional systems and its most crucial design aspects: needs and task analysis, learning strategies sequencing and formative evaluation. Should be taken after completion of ITEC 800.

ITEC 805 Contemporary Developments in Instructional Technologies (Units: 3)
Prerequisites: ITEC 800 and ITEC 801.

Topic to be specified in Class Schedule. New theoretical and technological developments as they affect the field. May be repeated when topics vary.

ITEC 815 Integration of Instructional Computing (Units: 3)
Prerequisite: ITEC 715 or equivalent.

Integration of computing into instruction and utilization of a variety of hardware, systems, and peripherals in classrooms. Development of integration projects, including desktop publishing and video, the web, and multimedia.

ITEC 816 Computer Resource Specialist (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Design, develop, and present professional development workshops and technology training. Use best practices and current resources to establish teams for technology planning and develop effective leadership skills, change management plan and grant proposals for your school or non-profit organization.

ITEC 818 Digital Game Play Design for Learning (Units: 3)
Prerequisite: Graduate standing.

Examination of game design theories, learning theories, and instructional design models. Survey of game design fundamentals and game play elements. Developing a game prototype by application theories and models. Introduction to and hands on practice with a game design engine.

ITEC 819 Mobile Application Design and Development (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Understanding the process of analytical reasoning and problem solving ability in designing a mobile application. Developing an understanding of computational thinking. Designing android mobile application for addressing the needs for assistive technology, integrating GIS capabilities, and students' assessment.

ITEC 823 Instructional Multimedia Tools: Flash I (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Multimedia skills through experience with hardware and software tools for the production of instructional multimedia. Development of competence at storyboarding, authoring, graphics, digital sound, animation, movie editing in the context of applying interactive principles which promote learning.

ITEC 825 Formative Evaluation and Usability Testing (Units: 3)
Prerequisites: ITEC 800 and ITEC 801.

Formative evaluation as an integral part of the professional practice of implementing instructional design projects. Identification and correction of problems in the usability of instructional media.

ITEC 830 Design of Learning Environments with Emerging Technologies (Units: 3)
Prerequisites: ITEC 800, ITEC 801 or consent of instructor.

Provide instructional designers with knowledge in learning theories and skills in designing personal learning environment (PLE) with emerging technologies. Exploration of new learning paradigms for 21st Century learners, educational value of emerging technologies, and interface design.

ITEC 833 Instructional Products Design Studio (Units: 3)
Prerequisites: ITEC 800 and ITEC 801.

New digital technologies and equipment in a studio environment; focus on conceptualization, design, and development of an instructional prototype; creating an appealing and effective product for today's classroom or corporate training room.

ITEC 835 Instructional Multimedia Tools: FLASH II (Units: 3)
Prerequisite: ITEC 823.

Advanced design and development techniques for Flash. Project-based learning and use of advanced authoring techniques in Flash.

ITEC 840 Computer Design of Instructional Graphics II (Units: 3)
Prerequisite: Demonstration of computer literacy.

Instruction in the creation of computer-generated graphics, typography, and principles of graphic design for instructions. Focus on how to influence learner perceptions while creating a variety of instructional graphics using industry-standard Adobe software.

ITEC 842 Cognition, Mind, and Learning for Educators (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Recent developments in cognition, learning, and instruction for educators; perspectives of behaviorism, developmentalism, socio-historical constructivism, cognitive science, metacognition, situated cognition, learning transfer, transformational learning, multiple intelligences, and cultural influences on cognition.

ITEC 845 Instructional Internet Authoring II (Units: 3)
Prerequisite: ITEC 745.

Design and development of Internet sites with platform neutral programs. Creation, maintenance, and updating of Web and Internet sites: server configuration and maintenance, shocked movies, and streaming video and audio.
ITEC 850 Design and Management of Training Projects (Units: 3)
Prerequisites: ITEC 800 and ITEC 801.
Project design and management in the context of instructional systems
design, as applied to developing and implementing major training
projects in corporate settings: program development, supervision, group
processes, staff and client relations.

ITEC 852 Instructional Technologies in Organizations (Units: 3)
Prerequisites: ITEC 800 and ITEC 801.
Performance technology as a means of improving employee performance
(TQM, reengineering, and the “learning organization”) and the use of
training technologies in the context of organizational development:
presentations by managers of training departments.

ITEC 854 Design of Print Instructional Materials (Units: 3)
Prerequisite: ITEC 801.
Design and production of instructional print materials for training and
educational purposes, using a variety of applications: word processing,
page layout, and slide presentation.

ITEC 860 Distance Education (Units: 3)
Prerequisite: ITEC 801.
Understanding of distance education development and delivery.
Exploration of the complexities of designing instruction in various
distance contexts (corporate training, education, etc.) and application of
these concepts in a real context through online facilitation and a major
design project.

ITEC 865 E-Learning Design and Development (Units: 3)
Prerequisite: ITEC 801.
Understanding instructional design and development processes in the
production of e-learning for education, business, and community settings.
Application of current e-learning design concepts in a major design and
development project using creating simulation, game-based, or goal-
based-scenario instructional approaches using emerging technologies.

ITEC 894 Creative Work (Units: 3)
Prerequisites: Consent of instructor and graduate major adviser; approval
of Advancement to Candidacy (ATC) and Culminating Experience (CE)
forms by Graduate Studies. ATC and Proposal for Culminating Experience
Requirement forms must be approved by Graduate Studies before
enrollment.

Students design, develop, and produce an instructional product or work.
A CD-ROM which contains the instructional product and the design
documents must be provided. (CR/NC grading only)

ITEC 895 Field Study (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to
Candidacy (ATC) and Culminating Experience (CE) forms by Graduate
Studies. Students design, produce, and field test an instructional unit,
using the instructional systems approach. The design process must be
documented in a narrative case study. ATC and Proposal for Culminating
Experience Requirement forms must be approved by Graduate Studies
before registration. Enrollment arranged through College of Education
Graduate Office. (CR/NC grading only)

ITEC 899 Independent Study In Instructional Technologies (Units: 1-3)
Prerequisites: ITEC 800 and ITEC 801. Enrollment by petition approved by
the instructor, adviser, and department chair.

Development of an instructional unit or field internship under direction of
a member of the department.
Interdisciplinary Studies Education (ISED)

ISED 100 General Studies Colloquium (Units: 3)
Awareness and knowledge of the university community—its resources, services, structure. Personal and career counseling.

ISED 150 Orientation to Education (Units: 3)
Teaching as a career; professional opportunities, qualifications and demands. Classroom visitation and field trips through educational institutions. Designed to help students assess their interest in teaching as a vocation. Does not meet professional education requirements. (ABC/NC grading; CR/NC allowed)

ISED 160 Data Analysis in Education (Units: 3)
Prerequisite: Satisfactory completion of ELM requirement.
Graphical representation of statistical data, descriptive and inferential statistics including measures of central tendency and variability; standard scores, correlation and regression, probabilistic reasoning, random sampling, and selected parametric and non-parametric tests of statistical significance.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:

   • B4: Math/QR

ISED 201 The EOP Student and the University (Units: 3)
Assist students in clarifying academic goals and objectives; provide students with skills and understandings to facilitate academic choices; improve progress towards student goals with most effective use of student time and resources. [CSL may be available]

ISED 204 Critical Thinking and the Cultural and Social Factors in Education (Units: 3)
Basic skills involved in reasoning to analyze, criticize, advocate ideas and to construct arguments by using materials reflective of current issues and debates related to education (cultural and social factors), enhance the ability to distinguish matters of fact from issues of judgement or opinion. (ABC/NC grading; CR/NC allowed)

ISED 585 Cross-cultural Education (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The "multicultural classroom" and of a culturally pluralistic model as an alternative to the present traditional multicultural model.

ISED 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
An intensive study of a particular problem in education under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only. [CSL may be available]

ISED 706 Principles and Methods of Adult and Vocational Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Changing character and functions of adult and vocational education; objectives, methods, resources, and evaluation; social influences on adult life and work; implications of research on adult learning and work; field observations and curriculum development. Required for the Designated Subjects Credential.

ISED 707 Planning and Funding Education and Community Programs (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Implementation and implications of planning models used in establishing educational programs in public and private agencies, community organizations, and business and industry; assessment of needs; identification of target populations and funding sources; development of written plan for funding.

ISED 715 Equal Opportunity in Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
History of "diversity" policies in education focusing on period between court-ordered desegregation of the 1950s to elimination of affirmative action at major public universities in California and Texas in the 1990s. (Plus-minus letter grade only)

ISED 716 Literacy and Cross-cultural Issues in Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Literacy issues that impact education and their effects on student learning and teaching practices. Using language as a metaphor to introduce students to historical, sociological, and political effects on literacy and education in the U.S.

ISED 717 Social Foundation for Multicultural Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Sociological and philosophical foundations of education; social structure of issues related to race, class, and gender; relating these issues to effects on education and historical view of multicultural education in the U.S.

ISED 735 Seminar on the Adult Learner (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Adult learning processes; multicultural learning styles in adults; motivation and the adult life cycle; ethical implications of research on adult learning; special needs of adult students.

ISED 736 Leadership and Policy for Community and Non-Formal Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Philosophy and theory of critical thinking and participatory leadership for groups of learners both in formal and non-formal, community-based educational organizations.

ISED 738 Critical and Postmodern Pedagogies (Units: 3)
Prerequisite: Background in social foundations of education.
Debates in education with respect to critical, participatory, and postmodern pedagogies; development and application of these philosophies to groups of learners; adult process and facilitation skills.

ISED 739 Education and Community Development: Equity and Diversity (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Effect of race, class, and gender on educational equity and diversity in formal and non-formal educational settings; investigates linkages between educational programming and community development and empowerment. [CSL may be available]
ISED 740 Education & Globalization: Issues in Comparative and International Education (Units: 3)
Prerequisite: ISED 747 or equivalent.
Comparative and international education. Regional/local differences in educational approaches; effect of globalization on transnational issues; education at all levels, human rights and peace education; policies and planning in international context.

ISED 745 Practicum in a Multicultural Educational Setting (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Clinical experience in a multicultural urban educational setting; development of instructional materials using pedagogically-sound principles; demonstration of effective teaching strategies and content.

ISED 747 Culture, Language, and Society in Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Research on interactions of culture, education, and society; the notion of culture; identifying interactions of culture and language in K-12 and adult education programs.

ISED 748 Culture, Cognition, and Power Issues in Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Implications of culture for cognitive processes and power issues in education. Cross-cultural cognition, race, class, and gender in all educational settings.

ISED 749 Second Language Acquisition in the Elementary School (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
First and second language acquisition theories and their relationship to second language learning; psychological, social, and linguistic aspects of second language acquisition of children; socio-political factors related to language issues.

ISED 781 Educational Praxis: Curriculum Development and Pedagogies (Units: 3)
Prerequisite: Graduate standing.
Overview of instructional processes in K-16 classrooms in various settings; curriculum development, cognitive style, learner diversity, and pedagogy.

ISED 782 Practicum in Adult Learning (Units: 3)
Prerequisites: Graduate standing or consent of instructor; must be taken concurrently with ISED 781.
Clinical experiences in adult education, work-force education, older adult, special needs, or other adult learning contexts; demonstration of use of teaching strategies and content.

ISED 783 Introduction to Technologies for Adult Learning (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Use technologies: microcomputers, on-line services, distance learning, and audio-visual equipment; impact of technologies on adult learning. Fulfills computer competency requirement for Designated Subjects Credential.

ISED 797 Seminar in Educational Research (Units: 3)
Prerequisite: Consent of graduate advisor.
Identification and analysis of research problems; methodology; techniques including sufficient familiarity with descriptive statistics to interpret writing; application of findings to field problems.
Course Attributes:
- Teacher Credential Program Crs

ISED 802 Seminar in Human Development, Curriculum, Learning, and Instruction (Units: 3)
Prerequisites: Admission to graduate program in Education; completion or concurrent enrollment in ISED 747.
Overview of human developmental needs, abilities, and experiences, Kadult, with respect to curriculum, learning and instruction. Focus on effects of growth and early experience through adulthood upon the development of human intellectual, emotional, and social development.

ISED 891 Seminar in Selected Studies (Units: 3)
Prerequisite: Consent of instructor.
Topic to be specified in Class Schedule. May be repeated as topics vary.

ISED 895 Field Study (Units: 3)
Prerequisites: ISED 797, completion of 24 units of MA coursework; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC; RP)

ISED 898 Master's Thesis (Units: 3)
Prerequisites: ISED 797; completion of 24 units of MA coursework; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Oral examination at conclusion of course for M.A. (CR/NC grading only)

ISED 899 Independent Study (Units: 1-3)
Prerequisite: Enrollment by petition approved by the instructor, adviser, and department chair. Open only to regularly enrolled students.
An intensive study of a particular problem under direction of a member of the department.
Interior Design (ID)

ID 240 Color and Design (Units: 3)
Color and design theories: visual elements and principles of design, their properties and relationships; developing sensitivity to, and judgment of, design.
Course Attributes:
- C1: Arts

ID 242 Interior Design Graphic Communication I (Units: 3)
Prerequisite: ID 240 (may be taken concurrently).
Vocabulary, tools, and graphic techniques for interior designers communication utilizing both manual and computer-aided methods. Classwork, 2 units; laboratory, 1 unit.

ID 244 Heritage of Housing and Interior Design (Units: 3)
Prerequisite: Must be an Interior Design or FCS major to enroll in this course.
Residential architecture and furnishings from ancient Egypt to 19th century England.

ID 245 Contemporary Design in Housing and Interiors (Units: 3)
Contemporary housing, interiors, and furnishings; designers and design philosophies that have influenced concepts in the 20th and 21st centuries.
Course Attributes:
- C1: Arts

ID 300 Designers of the 20th/21st Centuries (Units: 3)
Prerequisite: Upper division standing.
The impact that outstanding contemporary apparel and interior designers have on each other and the markets of both industries. Examination of common styles, media use, and characteristics of each designer as well as their typical market. (This course is offered as ADM 300 and ID 300. Students may not repeat the course under an alternate prefix.)

ID 340GW Human Dimensions in Housing and Interiors - GWAR (Units: 3)
Prerequisites: Upper division standing and ENG 214 or equivalent with a grade of C- or better; must be a Family and Consumer Sciences or Interior Design major to enroll in this course.
Relationships between people and various characteristics of their habitats. Social, cultural, psychological, and ecological factors which determine how individuals behave in different housing environments. Implications for design solutions. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

ID 343 Housing for People with Special Needs (Units: 3)
Prerequisite: ID 242 or consent of instructor; must be an Interior Design major to enroll in this course.
Housing needs generated by special conditions and circumstances: the elderly, handicapped, or other occupant types. Implications for the functional and aesthetic design of neighborhoods, interior spaces, and furnishings. Classwork, 2 units; laboratory, 1 unit.

ID 345 Interior Design Graphic Communication II (Units: 3)
Prerequisites: ID 242; must be an Interior Design major to enroll in this course.
Perspective, rendering and three dimensional modeling for interior design communication utilizing both manual and computer aided methods. Extra fee required.

ID 366 Forecasting Apparel and Interior Design Trends (Units: 3)
Prerequisite: College level drawing class or consent of instructor.
Forces in society that influence apparel and interior design trends; data used to develop trend reports, color reports, retail reports, culminating in a professional forecasting presentation of colors, silhouettes, fabrications, and lifestyles. (This course is offered as ADM 366 and ID 366. Students may not repeat the course under an alternate prefix.)

ID 440 The Housing Structure and Its Component Parts (Units: 3)
Prerequisites: ID 242; must be an Interior Design major to enroll in this course.
Construction processes, component parts, and systems of environmental control used in housing environments. Translation of three-dimensional space, structural components, and systems in two-dimensional media. Classwork, 2 units, laboratory, 1 unit.

ID 445 Business Practices for Interior Design (Units: 3)
Prerequisite: ID 345; must be an Interior Design major to enroll in this course.
Business practices for interior design: contracts, bookkeeping, and client relations.

ID 540 The Materials of Interior Design (Units: 3)
Prerequisites: ID 445; must be an Interior Design major to enroll in this course.
Materials and techniques used in designing interiors. Design and quality of materials and construction used in design products. Interrelationships among components of interiors.

ID 640 Interior Design Solutions - Residential (Units: 3)
Prerequisite: ID 540 or concurrent; must be an Interior Design major to enroll in this course.
Functional and aesthetic design of environments based on human needs and standards. Application of principles of design and color to residential spaces. Classwork, 2 units; laboratory, 1 unit.

ID 641 Interior Design Solutions - Commercial (Units: 3)
Prerequisite: ID 540; must be an Interior Design graduating senior to enroll in this course.
Functional and aesthetic design of environments based on human needs and standards. Application of principles of design and color to commercial spaces. Classwork, 2 units; laboratory, 1 unit.

ID 645 Advanced Interior Design Solutions (Units: 3)
Prerequisite: ID 640; must be an Interior Design graduating senior to enroll in this course.
Designing interiors for specific clients. Methods and techniques for interpreting design solutions to clients and others. Techniques of costing design solutions.
International Business (IBUS)

IBUS 130 Globalization and Business in the 21st Century (Units: 3)
Introduction to concepts related to globalization; the impact of globalization on ethical, ecological, political, legal, social, economic and technological aspects of the 21st century; examination of perspectives and tools for psychological, social and professional readiness in the global world.
Course Attributes:
• D1: Social Sciences
• Global Perspectives

IBUS 330 International Business and Multicultural Relations (Units: 3)
Prerequisite: Upper division standing.
International business: social, political, cultural and economic environments and their effects on functional management. Trade, global strategy, foreign direct investment, economic integration, foreign exchange, and the multinational enterprise.
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

IBUS 331 Cross-cultural Creativity in Business (Units: 3)
Prerequisite: ENG 214 or equivalent.
Cross-cultural creativity arising from multiple information processing perspectives in business environments and international competition. May not be counted as an elective course in the International Business concentration.

IBUS 430 Import-Export Management and Small Business Operations (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better, or consent of instructor.
Practical aspects of export and import management in small and medium-size businesses; export and import procedures, foreign sales, documentations, legal considerations, logistics and financial practices.

IBUS 440 Advanced Import-Export Management (Units: 3)
Prerequisites: Upper division standing; majors/minors; IBUS 430.
Import-export process from product/service development to marketing overseas. (Plus-minus letter grade only)

IBUS 517 Legal Environment of World Business (Units: 3)
Prerequisite: IBUS 330.
Status of persons and property within a foreign country. International transactions with or by governments or instrumentalities. Legal systems: overlapping or conflicting interests, problems of nationalization, annulment of contracts, or concessions in foreign countries.

IBUS 531 Cross-Cultural Innovation and Creativity in Business and Management (Units: 3)
Prerequisites: Upper division standing; IBUS 330 with a grade of C- or better; or consent of instructor.
Examination of the innovative, creative products, services and managements process in a cross-cultural environment. Exploration of macro and micro environment factors that influence innovation and creativity within. (Plus-minus letter grade only)

IBUS 566 Careers in International Business (Units: 3)
Prerequisites: IBUS 330 with a grade of C-minus or better, and two additional International Business courses; or consent of instructor.
Designed for students interested in working with and in the international business environment. Career decision making and career management skills. (Plus-minus letter grade only)

IBUS 567 Internship in International Business (Units: 1-3)
Prerequisites: IBUS 330 and a minimum 3.0 SF State GPA.
Analysis of experience with an international business or government. Weekly individual conferences with instructor. May be repeated for a total of 6 units.

IBUS 576 Global Entrepreneurship (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.
Introduction to the context that enables entrepreneurs to be successful in developed, emerging and developing economies. Focus on local context and contents of these economies, along with mainstream conceptions with emergent settings. (Plus-minus letter grade only)
Course Attributes:
• E1: Lifelong Learning Develop

IBUS 590 International Environmental Analysis (Units: 3)
Prerequisites: ENG 214, IBUS 330 with a grade of C- or better; or consent of instructor.
Factors affecting the conduct of contemporary business transactions in a number of specific global environments. (Plus-minus letter grade only)

IBUS 591 Doing Business in Latin America (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.
Business in Latin America. Demographics, psychographics, cultural and social values, business and managerial methods and systems. (Plus-minus letter grade only)

IBUS 592 Doing Business in Greater China (Units: 3)
Prerequisites: ENG 214 or equivalent, IBUS 330 with a grade of C- or better, or consent of instructor.
Business in Greater China: demographics, cultural and social values (philosophies, language, etc.), business and managerial methods and systems.

IBUS 593 Doing Business in Europe (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.
Business, economic, political, and social conditions affecting commercial conduct in Europe. Opportunities and challenges for investment and trade.

IBUS 594 Doing Business in Asia-Pacific Countries (Units: 3)
Prerequisites: IBUS 330 with a grade of C- or better or consent of instructor.
In-depth study of current issues in Asia-Pacific economic, cultural, political, social, and institutional environments and their impacts on national competitiveness within the region.
IBUS 596 Doing Business in Japan (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.

Issues in Japanese culture, management, organization, and employment relations. Organizational behavior and international business strategies of Japanese firms. Development of a strong base of knowledge for research, consulting, or business. (Plus-minus letter grade only)

IBUS 598 Doing Business in Emerging Markets (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.

Insight into or guidelines for ways of interacting and doing business with the wide range of cultures, institutions, businesses, and regions that are associated with emerging markets. (Plus-minus letter grade only)

IBUS 618 International Human Resource Management (Units: 3)
Prerequisites: IBUS 330 with a grade of C- or better, MGMT 405 and MGMT 610; or consent of instructor.

International aspects of human resources. Legal requirements, cultural issues, and the management practices and systems critical for success. Students may not take the course a second time under an alternate prefix. (Plus-minus letter grade only)
(This course is offered as MGMT 618 and IBUS 618. Students may not repeat the course under an alternate prefix.)

IBUS 620 Research in International Business and the Global Market (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.

Strengthening skills in analyzing international markets and conducting a business plan. International business entry strategy, international environment analysis, international business risks, and more. (Plus-minus letter grade only)

IBUS 628 Global Human Resource Management (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.

Examination of the nature of developing and managing human resources at the global level; exploration of the challenges in the global environment and strategies used to effectively develop and manage a global workforce in culturally and geographically diverse environments. (Plus-minus letter grade only)

IBUS 638 Global Leadership and Cultural Competencies (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better or consent of instructor.

Examination of different aspects in developing global leadership skills and cultural competencies in the volatile, competitive environments from an individual, collective and organizational collaborator’s perspective. Focus on the mindset, concepts and tools, cultural and contextual intelligence, and self awareness.

IBUS 659 Introduction to International Business Negotiation (Units: 3)
Prerequisites: IBUS 330 and MGMT 405 with a grade of C- or better or consent of instructor.

Intercultural negotiating skills become more essential as business becomes more global and participative. Exercises involving various protagonists, organizational contexts, and situations. (Plus-minus letter grade only)
(This course is offered as IBUS 659 and MGMT 659. Students may not repeat the course under an alternate prefix.)

IBUS 676 Social Entrepreneurship in a Global Context (Units: 3)
Prerequisite: IBUS 330 with a grade of C- or better.

Examination of social entrepreneurship in a global context. Focus on new business models, micro-financing, and community-based entrepreneurship. (Plus-minus letter grade only)

Course Attributes:

- Social Justice

IBUS 681 Seminar in Comparative Management (Units: 3)
Prerequisites: ENG 214, IBUS 330 with a grade of C- or better, or consent of instructor.

Analysis of managerial performance in different cultures. Examines the international dimensions of organizational behavior in different countries and the varying socioeconomic, political, and legal variables that interact with culture to affect local and international management.

IBUS 690 Global Strategic Management (Units: 3)
Prerequisites: ENG 214, IBUS 330 with a grade of C- or better, MGMT 405 and FIN 350 or consent of instructor; FIN 536 recommended.

A case study approach to business strategy, tactics, and decision-making in multinational enterprise. Interactive effects of governmental and business policies.

IBUS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive problem analysis under the direction of an international business faculty member. Open only to upper division students who have demonstrated ability to do independent work. May be repeated for a total of 6 units. [CSL may be available]

IBUS 815 Seminar in International Business (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Themes of culture and environments; the multinational enterprise and forms of international structure and strategy; rationalization of value chains, locational decisions and FDI; foreign exchange; global and regional economic integration. (Plus-minus letter grade only)

IBUS 829 Global Human Resources Management (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

The theory and applied aspects of human resources management in a global context. Topics cover critical areas and the emerging issues and leverages them for business practices. Focus on strategic HRM for sustained operational excellence. (Plus minus letter grade only)
IBUS 838 Global Leadership in the Modern World (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Examination of the impacts of globalization on society; the value of intellectual capital; and management in cross-cultural, interdisciplinary, and pluralistic environments. (Plus-minus letter grade only)

IBUS 841 Creativity for Managers: A Global Perspective (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Recognize, analyze, and support the value-adding determinants of creative behavior in global context; techniques for enacting and fostering productive creativity. (Plus-minus letter grade only)

IBUS 857 Seminar on Business in Greater China (Units: 3)
Prerequisites: BUS 788. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Analysis of opportunities, challenges, and approaches required for effective trade, investment, and business operations in The People's Republic of China, Taiwan, and Hong Kong. Cultural, institutional, legal, and economic environment. Business and government systems. (Plus-minus letter grade only)

IBUS 859 International Business Negotiating (Units: 3)
Prerequisites: 6 units in SF State graduate program. Restricted to graduate business students and students in the Ethics & Compliance Certificate program. Graduate students in other majors may enroll on a space-available basis with the consent of the Faculty Director of Graduate Programs.

Development of intercultural negotiating skills through cases involving protagonists, organizational contexts, and situations. (Plus-minus letter grade only)
(This course is offered as BUS 859 and IBUS 859. Students may not repeat the course under an alternate prefix.)

IBUS 867 Graduate Internship in International Business (Units: 1-3)
Prerequisite: Minimum 3.3 GPA. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Analysis of experience with an international business or government. Weekly individual conferences with instructor. (Plus-minus letter grade only)

IBUS 868 Strategies in Emerging and Developing Economies (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Examination of the strategies and basic institutions underlying emerging markets in developing economies. Focus on strategies, business models, micro-financing, and community-based initiatives. (Plus-minus letter grade only)

IBUS 876 Entrepreneurship in a Global Context (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Theory and practice of entrepreneurship in a global context; awareness of business opportunities in different institutional environments; strategic skills and a global and ethical mindset that meet the requirements of entrepreneurial ventures in a global economy. (Plus-minus letter grade only)

IBUS 881 Seminar in Comparative Management (Units: 3)
Prerequisites: IBUS 815 or consent of instructor. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Analysis of managerial performance in different cultures. Examines the international dimensions of organizational behavior in different countries and the varying socioeconomic, political, and legal variables that interact with culture to affect local and international management. (Plus-minus letter grade only)

IBUS 889 International Business Strategy (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

International strategy and structure; analysis of the multinational enterprise, tools and techniques of global industry analysis. (Plus-minus letter grade only)

IBUS 895 Research Project in International Business (Units: 3)
Prerequisites: Two International Business 800-level courses; two additional 800-level courses; consent of the Business Graduate Studies office and instructor; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Open to International Business M.S.B.A. candidates only. (CR/NC grading only)

IBUS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive study of a particular problem under the direction of an international business faculty member. Open only to graduate students of demonstrated ability to do independent work. (Plus-minus letter grade only) [CSL may be available]
International Relations (IR)

IR 104 Introduction to World Affairs (Units: 3)
Description and analysis of forces and events on-going in the world. Contemporary problems; development, nationalism, revolution, war and peace, and imperialism as they relate to overall patterns in international affairs.
Course Attributes:
• D1: Social Sciences
• Environmental Sustainability
• Global Perspectives
• Social Justice

IR 204 Introduction to International Relations (Units: 3)
Prerequisite: Restricted to IR majors.
Introduction to the contemporary international system: the historical context of its formation, the major actors of the current state system and how they mutually interact and face major issues. (Plus-minus letter grade only)

IR 305 Hi-Tech and Foreign Policy (Units: 4)
Prerequisite: I R 104.
Impact of new telecommunications technologies on the transmission of images, international politics and foreign policy.

IR 306 U.S.-Central American Relations (Units: 4)
Prerequisites: Upper division standing and ENG 214.
Examination of the background and current crisis in Central America with a special focus on the political, social, and economic relations of the countries of Central America to the United States.
Course Attributes:
• Global Perspectives

IR 308 Fundamentals of International Relations Theories, Issues, and Perspectives (Units: 4)
Prerequisites: Upper division standing; I R 104 and ENG 214.
Field of international relations: international political, economic, and cultural systems and regimes in world affairs. Theories, processes, problems, and prospects in the international arena. (ABC/NC grading only; CR grade not allowed)

IR 309GW International Relations Analysis and Application - GWAR (Units: 4)
Prerequisites: Upper division standing; IR majors; ENG 214 or equivalent with a grade of C or better and I R 308.
Analysis of international relations issues from a theoretically sophisticated perspective. Important contemporary, emerging, and enduring issues are debated. Designed for majors and minors. Extra fee required. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

IR 310 U.S. Foreign Policy (Units: 4)
Prerequisites: Upper division standing and ENG 214.
The foreign policy process in American government. Analysis of the institutions in American society which determine our foreign policy.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives

IR 312 Introduction to International Political Economy (Units: 4)
Prerequisites: Upper division standing; I R 104, I R 308, and ENG 214 or equivalent.
Familiarizes various theories of international political economy (IPE) and examines how they explain past and present international relations. In the process, students become familiar with the actors, institutions, and issues important to IPE.

IR 314 Post Modernism in International Relations (Units: 4)
Prerequisites: Upper division standing; I R 104, I R 308, or consent of instructor.
Investigation of the role of post-modernism in understanding national and global politics, and relations between nations; examination of the discipline’s core beliefs about rational actors who make cost-benefit decisions; and introduction to the role of social constructs such as culture, identity, and narratives, and how they influence policy decisions.

IR 315 Introduction to Global Peace Studies (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
The field of peace studies and the integrative questions which must be answered to achieve a coherent perspective on world peace. National and international issues, the environment, philosophy, literature, arts, media, and education.
(This course is offered as GPS 315, I R 315, and PHIL 315. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Environmental Sustainability
• Global Perspectives
• Social Justice

IR 321 Development and Foreign Policy--Africa (Units: 4)
Prerequisites: Upper division standing; ENG 214.
A comparison of the foreign policies of various African nation-states; in particular, a consideration of those policies as expressions of national frameworks, ideological perspectives, etc.
(This course is offered as I R 321 and PLSI 321. Students may not repeat the course under an alternate prefix.)
I R 322 Latin American Policy Analysis (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of the international relations and foreign policy-making systems of Latin American nations and an analysis of selected foreign policy problems facing Latin American decision-makers with oral and written reports. (This course is offered as I R 322 and PLSI 322. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

I R 323 The Persian Gulf in International Relations (Units: 4)
Prerequisites: Upper division standing and ENG 214.
Recent history of the Persian Gulf/Arabian Peninsula region: Bahrain, Iran, Iraq, Kuwait, Qatar, the United Arab Emirates, and Saudi Arabia; security issues, economic development, modernization and political reforms, Islamic revolution, trade and globalization. (Plus-minus letter grade only.)

I R 324 Middle East and North Africa in International Relations (Units: 4)
Prerequisites: Upper division standing and ENG 214.
Exploration of contemporary political and socioeconomic development in the Middle East region. Historical review of the demise of the Ottoman Empire, the anti-colonial revolt, the emergence of Israel, secular nationalism, and the rise of Islamism. (Plus-minus letter grade only.)

Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability
- Global Perspectives

I R 325 Chinese Foreign Policy (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of China’s international relations and the actors involved in constructing it. Analysis of the factors influencing China’s participation in international affairs. Assessment of the international realm’s effect on Chinese foreign policy. (This course is offered as I R 325 and PLSI 325. Students may not repeat the course under an alternate prefix.)

I R 326 South and Southeast Asia Foreign Relations (Units: 4)
Prerequisites: Upper division standing; ENG 214.
The foreign policy interaction of states in the South and Southeast Asian regions. Historical origins and development of states in these regions, as well as the evolution of their foreign policies, are examined in the context of SAARC and ASEAN. (Plus-minus letter grade only.)

Course Attributes:
- Global Perspectives

I R 327 Europe: Forming a More Perfect Union (Units: 4)
Prerequisite: ENG 214 or equivalent.
Comparative foreign policies of the European Union and its key member states. Effort to forge a common foreign policy; the Union’s external relations with the U.S. and Russia.

I R 328 Domestic and Foreign Policy: Post-Communist Regions (Units: 4)
Prerequisites: Upper division standing; ENG 214.
Development and subsequent dynamics of what used to be called the Soviet Bloc. Analysis of current relations in light of events in the post-World War II period. (This course is offered as I R 328 and PLSI 328. Students may not repeat the course under an alternate prefix.)

I R 329 U.S.-Japan Politics (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
In the postwar period, U.S.-Japan relations have moved from the periphery of international politics to the center, yet our understanding of this development has lagged behind. The origins of the trade deficit, competition, and related economic and security questions. (This course is offered as I R 329 and PLSI 329. Students may not repeat the course under an alternate prefix.)

I R 330 World Law (Units: 4)
Prerequisites: Upper division standing and ENG 214.
The natural and positive schools of law; the role of law in the world community; the substantive areas of international laws on recognition, nationality, territory, jurisdiction, and conflict resolution; forces influencing the future role and development of world law.

I R 331 Global Environmental Crisis (Units: 4)
Prerequisites: Upper division standing; ENG 214.
Describes the impact of a growing world economy and population on biological and physical earth systems, and the potential consequences of environmental destruction for human well-being. Explores the historical and economic reasons for the political divide between developed and less-developed countries with respect to environmental issues and negotiations. (This course is offered as I R 331 and ENVS 331. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- Environmental Sustainability
- Global Perspectives
- Social Justice

I R 332 International Criminal Law (Units: 4)
Prerequisites: Upper division standing; C J 300, a GWAR course; or consent of instructor.
Comparative legal systems and the U.S. system of criminal law. Classwork, 3 units; fieldwork, 1 unit. (This course is offered as C J 505 and I R 332. Students may not repeat the course under an alternate prefix.)

I R 334 International Organizations: New World Order (Units: 4)
Prerequisites: Upper division standing and ENG 214.
Analysis of the nature, role, history, and future of international organizations in the social, economic, and political development of world community. Examination of present patterns and problems of international political behavior as seen through and influenced by international organizations.
I R 335 Muslim Societies in Transnational Perspective (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Introduction to the complexity and diversity of the Muslim world with identification of transnational trends and linkages that characterize contemporary Muslim societies. Organized around seminal issues and themes, does not require prior knowledge of Islam.

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives

I R 336 Politics of Globalization (Units: 4)
Prerequisites: Upper division standing and I R 104.

Analysis of nature of globalization and its impact. Examination of causes of globalization and its effect on the state, policy autonomy, national security, the developing world, and culture.

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

I R 337 Introduction to the European Union (Units: 4)
Prerequisite: Upper division standing or consent of instructor

Introduction to the European Union, its rationale, foundations, operations, and current challenges. Exploration of the roles of the European Union’s governing institutions, how they interact with different levels of governance among Member States, and main policies of the European Union.

I R 341 Comparative Criminal Justice (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Ways in which institutions of criminal justice in one society compare with those in other societies. Attention is given to U.S., British, European, Asian, and African systems. Classwork, 3 units; fieldwork, 1 unit.

(This course is offered as C J 340 and I R 341. Students may not repeat the course under an alternate prefix.)

I R 342 Strategy and War (Units: 4)
Prerequisites: Upper division standing; ENG 214.

War as an instrument of national policy. Causes of war and classical and modern strategies for winning it from Clausewitz to Herman Kahn. Strategic theory, games, deterrence, guerrilla warfare, counter-insurgency, weapons technology, and the political consequences of preparedness.

(This course is offered as I R 342 and PLSI 342. Students may not repeat the course under an alternate prefix.)

I R 346 Recent European History (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214 or equivalent.

Western Europe since the eve of World War I; political and social problems originating in the conditions of the interwar period and World War II.

(This course is offered as HIST 346 and I R 346. Students may not repeat the course under an alternate prefix.)

I R 360 Intelligence and Intelligence Agencies (Units: 4)
Prerequisites: Upper division standing and ENG 214.

The role of modern intelligence agencies such as the CIA and the KGB as information sources for foreign policy making. Analysis of intelligence successes and failures and proposals for improving the intelligence process.

I R 361 Terrorism and Covert Political Warfare (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Terrorism and covert political warfare as international instruments especially since World War II. The use of terror and covert political warfare and the responses to their use.

(This course is offered as C J 461 and I R 361. Students may not repeat the course under an alternate prefix.)

I R 362 Domestic & Transnational Sources of US Foreign Policy (Units: 4)
Prerequisites: ENG 214 or equivalent, I R 310 or PLSI 200, or consent of instructor.

The role of domestic and transnational actors in making US foreign policy. Examination of American culture, media, interest groups, social movements, corporations, and lobbies on policy outcomes. Transnational influences on US foreign policy. Impact of international events on Americans.

(This course is offered as I R 362 and PLSI 362. Students may not repeat the course under an alternate prefix.)

I R 372 Critical Political Theory (Units: 4)
Prerequisite: ENG 214.

Focus on the critical tradition in political theory that responds to and differentiates itself from classical and modern canonical texts.

(This course is offered as PLSI 372, HUM 372, and I R 372. Students may not repeat the course under an alternate prefix.)

I R 404 Politics of China (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Contemporary government and politics of the People’s Republic of China with modest concern for the way the past has shaped the present. Main focus is on political institutions and political processes.

(This course is offered as PLSI 404 and I R 404. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

I R 407 Politics of Russia (Units: 4)
Prerequisite: Upper division standing.

Contemporary government and politics of Russia, the way the past has shaped the present. Political institutions, political processes, and ideologies.

(This course is offered as PLSI 407 and I R 407. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
I R 409 Russia and World Order (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Introduction to theories of world order and Russia's role in it. Review of historical and contemporary foundations for understanding world order. Discussion of Russia's role in various regional and global settings. (Plus-minus letter grade only)
(This course is offered as I R 409 and PLSI 409. Students may not repeat the course under an alternate prefix.)

I R 411 East Asian Politics (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Government and politics of East Asia (China, Japan, South Korea, and Taiwan). Systematic comparison of nations utilizing common themes: political development, political institutions, political economy, political change.
(This course is offered as PLSI 411 and I R 411. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

I R 412 South Asian Politics (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Political development in the South Asian states; political institutions and processes; parties and election; leadership; current policies and problems.
(This course is offered as PLSI 412 and I R 412. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- Global Perspectives

I R 413 Media Chinese (Units: 3)
Prerequisite: CHIN 401 or consent of instructor.

Mandarin as it is used in various genres on radio/television and in news reports and articles, editorials, interviews, and advertisements.
(This course is offered as CHIN 411, I R 413, and JOUR 411. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- Global Perspectives

I R 416 Ethnicity and Nationalism (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Issues and problems raised by the phenomena of ethnicity and nationalism, ethnic conflict, and efforts at conflict resolution in a comparative context.
(This course is offered as PLSI 416 and I R 416. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

I R 417 Gender, Equality, and Politics: A Comparative Perspective (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Examination of gendered nature of political representation, employment, and welfare state policy in post-industrialized nations. Emphasis on different political and social arrangements that European governments and social movements have developed to accommodate the growing demand for gender equality.
(This course is offered as PLSI 417 and I R 417. Students may not repeat the course under an alternate prefix.)

I R 428 International Political Economy of Food and Hunger (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Exploration of why hunger persists in a world of abundance; food aid, farm policy, and global food trade; whether production can match population growth without environmental harm; crop genetic engineering, international policies and movements for sustainability, and food sovereignty/security.
(This course is offered as I R 428 and GEOG 428. Students may not repeat the course under an alternate prefix.)

I R 430 Israeli Democracy: Politics, Institutions, and Society (Units: 3)
Prerequisite: ENG 214 or equivalent.

Knowledge of Israel's political system, its origins, its formal structure, the way it functions, and its main attributes in comparison to other democratic political systems. Ideology, state and religion, and civil liberties.
(This course is offered as JS 430, I R 430, and PLSI 430. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

I R 432 Model United Nations (Units: 4)
Prerequisites: Upper division standing and ENG 214.

Major social, economic, and political issues before the United Nations; their meaning for a selected member state. Participation in annual Model United Nations Conference under faculty supervision. May be repeated for a total of 8 units.

I R 433 Model Arab League (Units: 4)
Prerequisites: Upper division standing; ENG 214, and MEIS 300 or I R 324 or PLSI 410; or consent of instructor.

Seminar focusing on select countries in the Arab world, which students represent at delegates at regional Model Arab League (MAL) conferences. Preparation of case study papers, policy briefs and MAL resolutions for various councils at the MAL. Training in parliamentary procedure and public speaking. May be repeated for a total of 8 units.
(This course is offered as I R 433 and MEIS 433. Students may not repeat the course under an alternate prefix.)

I R 435 Politics of Global Finance and Crisis (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

The development and role of late 20th and early 21st century financial technologies in modern market crises. Research and critical analysis of 21st century finance capitalism. Political and financial interactions, including limits and possibilities for controlling financial behavior.
(This course is offered as PLSI 435, I R 435, and FIN 435. May not be repeated under alternate prefix.)
I R 445 Geopolitics and Globalization (Units: 3)
Prerequisites: Upper division standing; ENG 214.
Physical and cultural geographic factors in and between political-territorial units. Effects of resource distribution, political motivations and ideologies on establishing territorial sovereignty. (This course is offered as GEOG 445 and I R 445. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences

I R 446 The Multinational Corporation in World Affairs (Units: 4)
Prerequisites: Upper division standing and ENG 214 or equivalent.
Examination of nature of multinational corporations (MNCs) and sources of their internationalization. Review of major schools of thought about MNCs power (obsolescing bargain, dependence, and bargaining model) vis-a-vis host and home governments, and international regimes.

I R 450 International Labor (Units: 3)
Prerequisites: Upper division standing; LABR 250 or consent of instructor.
Analysis of labor’s role in the developed economies, East and West, and in developing areas. Theoretical perspectives on international labor. Migration and population as they relate to labor. Impact of trade treaties on labor markets. (This course is offered as LABR 550 and I R 450. Students may not repeat the course under an alternate prefix.)

I R 452 International Media Politics (Units: 4)
Prerequisites: Upper division standing and ENG 214 or equivalent.
Examination of how communication among states and non-state entities shapes international relations, from the perspective of various theoretical and epistemological approaches. (This course is offered as I R 452 and JOUR 452. Students may not repeat the course under an alternate prefix.)

I R 460 Rising Powers (Units: 4)
Prerequisites: Upper division standing; I R 104 or I R 204; or consent of instructor;
Exploration of the rise of Brazil, Russia, India, China, and others; capacities for domestic power accumulation, national identities, military capabilities, Western and non-Western responses, and emerging global order.

I R 520 Globalization and Development (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Explores origins of poverty in Africa, Latin America, Asia; successes and failures of development policies and aid, technology, industrialization, trade trends and controversies, inequality, impacts of globalization, international agencies, NGOs, social movements for justice and sustainability. (Plus-minus letter grade only.)

I R 530 The Arab-Israeli Conflict (Units: 3)
Prerequisite: ENG 114 or equivalent.
Examination of causes of the Arab-Israeli conflict; beginnings in the late nineteenth century, Jewish-Palestinian confrontation during the British Mandate (1917-1948); Arab-Israeli wars since 1948; Israeli-Palestinian confrontation since 1948; attempts to end the confrontation since 1967. (This course is offered as JS 560 and I R 530. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences

I R 540 The Rich and the Poor Nations (Units: 4)
Prerequisites: Upper division standing and ENG 214.
Institutional framework and processes of international development, finance, trade, and foreign aid. Exercise of influence and cultural dominance by developed over less developed nations through diffusion, transferal, and exchange.

I R 544 Women in the World (Units: 4)
Prerequisites: Upper division standing and ENG 214.
Analysis of women’s roles in political, social, and economic development of selected nations and in international relations; effect of global movement for women’s rights. Case studies of female leaders and their impact on world affairs. (This course is offered as I R 544 and PLSI 544. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives
• Social Justice

I R 550 Proseminar in Foreign Policy Analysis (Units: 6)
Prerequisites: All 300-level IR core courses, including I R 309GW, or consent of instructor.
Analysis of political, economic, and socio-cultural influences on the decision-making behavior of individuals, groups, and nation-states in world affairs; data collection, interpretation, and prescription.

I R 601 Lectures on Contemporary Global Issues (Unit: 1)
Prerequisite: Upper division standing.
Survey of a major global event as it unfolds; analysis of news coverage and supplemental readings; and application of regional and theoretical knowledge from core IR classes. May be repeated for a total of 2 units.

I R 604 Analysis of Global Issues (Units: 4)
Prerequisite: Upper division standing.
Analysis of major global events as they unfold; analysis of news coverage, supplemental readings; and application of regional and theoretical knowledge from core IR classes. May be repeated for a total of 8 units.
I R 632 Regional Economic Communities (Units: 4)
Prerequisites: Upper division standing; ENG 214 and I R 104; or consent of instructor.

Political economy of economic integration in the South (African Economic Community, MERCOSUR, Andean Community, Caribbean ASEAN) in light of the European Union, and the fundamental tension between economics and politics.

I R 635 Economics of Globalization (Units: 3)
Prerequisites: ECON 101, ECON 102, or consent of instructor.

(This course is offered as ECON 635 and I R 635. Students may not repeat the course under an alternate prefix.)

I R 640 Field Study in International Relations (Units: 1-5)
Prerequisites: Upper division standing and ENG 214 or equivalent.

Practical and academic experience in a non-classroom setting, requiring the utilization of research and communication skills in a topic relevant to the study of international relations. May be repeated for a total of 10 units.

I R 685 Projects in the Teaching of I R (Units: 1-4)
Prerequisites: I R major with successful completion of I R 104 and I R 308 (minimum 3.0 in instructionally related course); consent of instructor.

Reading and discussion in the teaching of international relations. Responsibilities include working with supervising faculty member in preparing course materials, tutoring students, and conducting small discussion sections. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

I R 699 Independent Study (Units: 1-4)
Prerequisite: Consent of major adviser, supervising faculty member, and department chair. Enrollment by petition.

Study is planned, developed, and completed under the direction of a member of the departmental faculty. Open only to students who have demonstrated ability to do independent work.

I R 708 College Teaching of IR (Units: 3)
Prerequisites: Graduate standing in IR; completion of instructionally related course with B or better; consent of instructor.

Reading and discussion in teaching of international relations. Responsibilities include working with supervising faculty member in preparing course materials, tutoring students, and conducting small discussion sections. May be repeated for a total of 6 units.

I R 720 Theory and Approaches in International Relations (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Seminar in the theories and approaches to the study of international relations. Required of all graduate students in first semester of graduate study. (AB/NC grading only.)

I R 725 The Analysis of Foreign Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Foreign policy analysis, research, and oral and written briefing techniques. Required of all International Relations master's degree candidates. (AB/NC grading only.)

I R 726 Intelligence and Foreign Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Intelligence is a key component in the formulation of foreign policy. Review of what constitutes national intelligence; examine the tension between policymakers and intelligence analysts through the use of case studies and readings. (AB/NC grading only.)

I R 728 International Political Economy (Units: 3)
Prerequisites: Graduate standing; I R 720, or consent of instructor.

International political economy: in-depth consideration of alternative theories—globalization vs. nation-states, World Trade Organization and regional trading blocs, transnationals, International Monetary Fund and global finance, investment and inequality, environment, trade and development, future scenarios. (Plus-minus letter grade only.)

I R 731 Politics of Multinational Corporations (Units: 3)
Prerequisites: Graduate standing; I R 720 and I R 728, or consent of instructor.

Interdisciplinary examination of one of the most salient actors in the international political economy, the multinational corporations (MNC). The power of MNCs, the effect of MNCs on host countries, and the governance of MNCs. (Plus-minus letter grade only)

I R 734 International Migration (Units: 3)
Prerequisite: Graduate standing.

Analysis of global migration trends and their impact, including international migration theory, law and migration policies of sending and receiving states; gender, generational and transnational dimensions of migration. (Plus-minus letter grade only.)

I R 735 Seminar in Global Environmental Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

International/global policy making process and responses to critical environmental problems confronting the world as well as underlying causes such as population explosion and energy consumption. Policy choices, negotiating strategies, and outcomes.
(This course is offered as I R 735 and GEOG 735. Students may not repeat the course under an alternate prefix.)

I R 736 International Development and Globalization (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Colonial legacies, economic strategies, contemporary challenges in the former Third World; contrasting theories of development and globalization; feminist and ecological critiques; roles of the World Bank, IMF, and WTO, transnational corporations, new global forums and social movements "from below". (Plus-minus letter grade only)

I R 737 Seminar in Regional Economic Communities (Units: 3)
Prerequisite: I R 720.

Political economy of economic integration of the African Economic Community, MERCOSUR, Andean Community, Caribbean ASEAN in light of the European Union, and the fundamental tension between economics and politics.
I R 738 Contemporary International Legal Issues (Units: 3)
Prerequisites: Graduate standing in International Relations or upper
division standing in International Relations with consent of instructor.

Introduces fundamentals of international public law: sources, subjects,
sovereignty, jurisdiction, immunity, and responsibility of states. Provides
thorough analysis of recent substantial and institutional development in
the fields of the environment, trade, use of force, and universal crimes.
(Intended for majors only.)

I R 739 International Security (Units: 3)
Prerequisite: Consent of instructor.

The major theories, problems, and case studies of international security
in the past cold war; concentrating on the security interests of the leading
states; such as, the U.S., Russia, China, Japan, and Europe as they face
today’s challenges.

I R 741 Africa (Units: 3)
Prerequisites: Graduate standing and I R 720.

Examines African development as a context and concern for
contemporary foreign policy of selected African nation-states. Students
are required to do individual research and contribute to the general
discussion.

I R 742 Seminar on American Foreign Policy (Units: 3)
Prerequisites: Graduate standing and I R 720.

Reading and research seminar dealing with varying approaches to U.S.
diplomacy and culminating in a research paper on American policy
toward some major problem, nation, or area.

I R 743 Seminar in Chinese Foreign Policy (Units: 3)
Prerequisites: Graduate standing; I R 720 and I R 725, or consent of
instructor.

Configuration, causes, and consequences of Chinese foreign policy. Key
actors and events, and the diverse instruments that China has used or
is using to achieve its foreign policy objectives. (Plus-minus letter grade
only.)

I R 744 Current European Politics (Units: 3)
Prerequisites: Graduate standing and I R 720.

Investigation of European nation states and the development of
supranational institutions, processes and politics in the European Union.
Individual research and seminar discussion.

I R 745 Latin America (Units: 3)
Prerequisites: Graduate standing; I R 720; or consent of instructor.

The leitmotif of contemporary Latin American relations—the struggle for
development. Within the context of specific case studies, examines how
domestic and international forces affect national development efforts.
(Plus-minus letter grade only.)

I R 746 The Middle East (Units: 3)
Prerequisites: Graduate standing; I R 323, I R 324, and I R 720, or consent
of instructor.

Contemporary international relations among Arab countries, including
Maghreb states, and between region and outside countries and blocs.
Case studies of continuing penetration of area by imperialism, competing
changing faces, and different characters of such forces.

I R 747 Russia and the West (Units: 3)
Prerequisites: Graduate standing; I R 720, or consent of instructor.

Russia’s relations with the West in historical, economic, political and
military settings. (Plus-minus letter grade only)

I R 749 Asia and the World System (Units: 3)
Prerequisite: I R 720.

Principal Asia-Pacific states: economic, political, and military issues in
the region. Readings on China, Japan, Taiwan, the Koreas, S.E. Asia, India,
with Europe, the U.S., and Russia as factors.

I R 750 Methods and Thesis Selection in International Relations (Units: 3)
Prerequisites: Graduate standing; I R 720, or consent of instructor.

Seminar designed to introduce international relations graduate students
to the range of methods of analysis in the field and to require students
to select their thesis topics. Required of all students in their second
semester of study. (AB/NC grading only)

I R 751 Alternative Research Methods in International Relations (Units: 4)
Prerequisite: I R 720.

Examines a variety of research methods that will enable students to
test hypotheses. Students will learn how to acquire and organize data
in various formats to contribute to scholarship. The course will include
quantitative methods.

I R 892 Sponsored Graduate Internship in International Relations (Units:
3)
Prerequisites: Graduate standing; I R 720; consent of instructor;
and approval of Advancement to Candidacy (ATC) and Cumulating
Experience (CE) forms by Graduate Studies.

On- or off-campus internship. Requires approved proposal, daily log, and
major paper connecting experience to international relations theory. (CR/
NC/RP grading only)

I R 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to
Candidacy (ATC) and Cumulating Experience (CE) forms by Graduate
Studies.

Student conducts, under committee supervision, research and writing of
thesis from topic within field of international relations. Defense of thesis
by committee examination is required. Advancement to Candidacy (ATC)
and Proposal for Cumulating Experience Requirement forms must be
approved by the Graduate Division before registration. (CR/NC grading
only.)

I R 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate major adviser, supervising faculty
member, and department chair. Enrollment by petition.

Study is planned, developed, and completed under the direction of a
member of the departmental faculty. Open only to graduate students who
have demonstrated ability to do independent work.
Italian (ITAL)

ITAL 100 First Semester Italian for Speakers of English and Spanish (Units: 4)
Designed especially for those who already speak Spanish and English, though it is open to all students. Understanding, speaking, and writing the Italian language. Basic elements of Italian culture. Acquisition of communicative skills in situational and cultural contexts. [Formerly ITAL 101 - First Semester Italian for Speakers of English and Spanish]
Course Attributes:
• C2: Humanities
• Global Perspectives

ITAL 101 First Semester Italian (Units: 4)
Understanding, speaking, reading, and writing Italian and Italian culture; language as a communicative medium and carrier of culture.
Course Attributes:
• C2: Humanities
• Global Perspectives

ITAL 102 Second Semester Italian (Units: 4)
Prerequisite: ITAL 101 or equivalent.
Continuation of ITAL 101.
Course Attributes:
• C2: Humanities
• Global Perspectives

ITAL 103 Third Semester Italian (Units: 3)
Prerequisite: ITAL 102 or equivalent.
Reinforcement of language structure; literary styles and techniques in Italian.
Course Attributes:
• C2: Humanities
• Global Perspectives

ITAL 104 Fourth Semester Italian (Units: 3)
Prerequisite: ITAL 103 or equivalent.
Selected reading material in Italian literature.
Course Attributes:
• C2: Humanities
• Global Perspectives

ITAL 206 Italian Conversation (Units: 3)
Prerequisite: ITAL 102 or equivalent. May be taken concurrently with ITAL 103 or ITAL 104.
Development of listening and speaking skills through vocabulary exercises, conversation, and oral reports based on aspects of contemporary Italian culture.
Course Attributes:
• C2: Humanities
• Global Perspectives
• Social Justice

ITAL 305 Advanced Grammar and Composition (Units: 3)
Prerequisite: ITAL 104 or equivalent.
Analysis of grammatical constructions. Exercises in style.
ITAL 350 Advanced Oral and Reading Practice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Expansion of ability to read and interpret selected plays, poems, and prose writings. May be repeated once when material changes.
ITAL 401 Italian Culture and Civilization (Units: 3)
Prerequisite: ITAL 104 or equivalent.
Background for literature.
ITAL 510 Italian Literature: Early Period (Units: 3)
Prerequisite: ITAL 104 or equivalent.
Literature from its origins to the middle of the 16th century. Representative works and movements.
ITAL 511 Italian Literature: Late Period (Units: 3)
Prerequisite: ITAL 104 or equivalent.
Literature from the middle of the 16th century to the present. Representative works and movements.
ITAL 525 Literature of the Risorgimento (Units: 3)
Prerequisites: ITAL 510 and ITAL 511 or equivalents.
Analysis of texts from representative figures such as Parini, Alfieri, Foscolo, Leopardi, Manzoni, etc.
ITAL 530 Renaissance Prose/Poetry (Units: 3)
Prerequisites: ITAL 510 and ITAL 511.
Analysis of selected readings from representative prose writers and poets of the Italian Renaissance (Machiavelli, Guicciardini, Castiglione, Poliziano, Ariosto, for example). Focus on dominating ideas, trends. Attention also given to social, political, and artistic background.
ITAL 550 The Italian Theater (Units: 3)
Prerequisites for ITAL 850: Admission to Italian program; ITAL 510 and ITAL 511; or consent of instructor.
Prerequisites for ITAL 550: ITAL 510 and ITAL 511 or equivalents.
Plays selected from playwrights from Renaissance to today, studied and interpreted as salient points of history of theatre. (ITAL 850/ITAL 550 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
ITAL 560 The Italian Novel (Units: 3)
Prerequisites: ITAL 510 and ITAL 511 or equivalents.
Trends as seen through the works of Manzoni, Nievo, Verga, D'Annunzio, Svevo, and writers of the present period.
Course Attributes:
• Global Perspectives

ITAL 570 Italian Women Writers - 13th to 20th Centuries (Units: 3)
Prerequisites: ITAL 510 and ITAL 511 or equivalents or consent of instructor.
Selections of prose and poetry by Italian women writers from the 13th to the 20th century: from Comunreta Donzella to the 1926 Nobel prize winner, Grazia Deledda, and the major novelists of the modern period. (ITAL 870/ITAL 570 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
ITAL 580 Great Figures in Italian Literature (Units: 3)
Prerequisites: ITAL 510 and ITAL 511 or equivalents.

Rotating course focused on the works and ideas of one or more authors who gave significant shape to Italian thought during their times. Topic to be specified in Class Schedule. May be repeated when different authors are studied.
Course Attributes:
• Global Perspectives

ITAL 581 Divina Commedia (Units: 3)
Prerequisite for ITAL 881: Admission to graduate program or consent of instructor.
Prerequisites for ITAL 581: ITAL 510 and ITAL 511 or equivalents.

Analysis of selected cantos integrated with relevant information on medieval literature, poetics, scholasticism, classical tradition, and socio-political structure of Dante's world.
(ITAL 881/ITAL 581 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ITAL 600 Italian Literature on Film in English (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Analysis of four literary texts representative of differing aspects of Italian culture from the 1990's to the present and the filmic versions of them.

ITAL 600GW Italian Literature on Film in English - GWAR (Units: 3)
Prerequisites: Italian major; ENG 214 or equivalent with a grade of C- or better.

Comparative analyses of cinematic and literary narrative texts, both of which focus on seminal moments in Italian historical and cultural development from peasant society in the 19th century to urban criminal organization in the early 21st century. [Taught in English.] (ABC/NC grading only)
(ITAL 800/ITAL 600GW is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
Course Attributes:
• Graduation Writing Assessment
• Global Perspectives

ITAL 699 Independent Study (Units: 1-3)
Prerequisite: ITAL 104 or equivalent.

Intensive concentration upon special topics in Italian. Written projects requiring critical analysis, and interpretation of linguistic or literary problems. Material adapted to individual needs and interests. May be repeated.

ITAL 800 Italian Literature on Film in English - GWAR (Units: 3)
Prerequisites: Italian major; ENG 214 or equivalent with a grade of C- or better.

Comparative analyses of cinematic and literary narrative texts, both of which focus on seminal moments in Italian historical and cultural development from peasant society in the 19th century to urban criminal organization in the early 21st century. [Taught in English.] (ABC/NC grading only)
(ITAL 800/ITAL 600GW is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ITAL 830 Seminar: Italian Literature of the 19th Century (Units: 3)
Prerequisite: Admission to Italian program or consent of instructor.

Romanticism, Risorgimento, and Verismo, particularly as they affect literary problems of the 20th century and the search for a national language.

ITAL 850 The Italian Theater (Units: 3)
Prerequisites for ITAL 850: Admission to Italian program; ITAL 510 and ITAL 511; or consent of instructor.
Prerequisites for ITAL 550: ITAL 510 and ITAL 511 or equivalents.

Plays selected from playwrights from Renaissance to today, studied and interpreted as salient points of history of theatre.
(ITAL 850/ITAL 550 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ITAL 870 Italian Women Writers - 13th to 20th Centuries (Units: 3)
Prerequisites: ITAL 510 and ITAL 511 or equivalents or consent of instructor.

Selections of prose and poetry by Italian women writers from the 13th to the 20th century: from Compitha Donzella to the 1926 Nobel prize winner, Grazia Deledda, and the major novelists of the modern period.
(ITAL 870/ITAL 570 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

ITAL 880 Seminar: Individual Authors (Units: 3)
Prerequisite: Admission to Italian program or consent of instructor.

Rotating mostly monographic graduate seminars focused on the works and times of authors that defined significant periods of Italian culture. Author or authors to be specified in Class Schedule. May be repeated when different authors are studied.

ITAL 881 Divina Commedia (Units: 3)
Prerequisite for ITAL 881: Admission to graduate program or consent of instructor.
Prerequisites for ITAL 581: ITAL 510 and ITAL 511 or equivalents.

Analysis of selected cantos integrated with relevant information on medieval literature, poetics, scholasticism, classical tradition, and socio-political structure of Dante's world.
(ITAL 881/ITAL 581 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
ITAL 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered 892, 893, 894, 895, 898, or 998, (or in some cases, courses numbered 890 - see program’s graduate advisor for further information). (CR/NC, RP)

ITAL 899 Independent Study (Units: 1-3)
Prerequisites: Consent of graduate major adviser and supervising faculty member; admission to Italian program or consent of instructor.

Study is planned, developed, and completed under the direction of a member of the department faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition.
Japanese (JAPN)

JAPN 101 First Semester Japanese (Units: 4)
Understanding, speaking, reading, and writing modern Japanese.
Course Attributes:
  - C2: Humanities
  - Global Perspectives

JAPN 102 Second Semester Japanese (Units: 4)
Prerequisite: JAPN 101 or equivalent.
Continuation of JAPN 101. Understanding, speaking, reading, and writing modern Japanese.
Course Attributes:
  - C2: Humanities
  - Global Perspectives

JAPN 103 Third Semester Japanese (Units: 4)
Prerequisite: JAPN 102 or equivalent.
Continuation of JAPN 102. Intermediate level modern Japanese.
Course Attributes:
  - C2: Humanities
  - Global Perspectives

JAPN 200 Art of Japanese Writing and Calligraphy (Units: 3)

JAPN 250 Individualized Study of Kanji: Level 1 and Level 2 (Units: 3)
Prerequisite: JAPN 101 or equivalent. Open to all students.
Individualized study of Kanji. Learn 1000 Educational Kanji characters. Level 1 is required for Japanese minors. Level 2 is required for Japanese B.A. majors. May be repeated for a total of 12 units.

JAPN 301 Japanese Conversation (Units: 3)
Prerequisites: JAPN 103 and JAPN 250 or equivalents.
Developing aural-oral skills for conversations at different social levels and situations.

JAPN 302 Japanese Reading and Grammar (Units: 3)
Prerequisites: JAPN 103 and JAPN 250 or equivalents.
Reading modern Japanese. Structural analysis and vocabulary development.

JAPN 305 Advanced Conversation and Composition I (Units: 3)
Prerequisites: JAPN 301 and JAPN 302 or equivalents.

JAPN 306 Advanced Conversation and Composition II (Units: 3)
Prerequisites: JAPN 301 and JAPN 302 or equivalents.

JAPN 309 Advanced Readings in Japanese (Units: 3)
Prerequisites: JAPN 301 and JAPN 302 or equivalents.
Reading modern literary, journalistic, and expository writings.
Course Attributes:
  - Global Perspectives

JAPN 325 Practical Linguistics in Japanese (Units: 3)
Prerequisites: JAPN 301 and JAPN 302 or equivalents.
Application of Japanese sound and structural patterns to practical usage.

JAPN 330 Proverbs and Idiomatic Expressions in Japanese (Units: 3)
Prerequisites: JAPN 301 and JAPN 302 or equivalents.
The most commonly used proverbs and idiomatic expressions in Japanese.

JAPN 331 A Study of Katakana Words in Japanese (Units: 3)
Prerequisites: JAPN 301 and JAPN 302, or consent of instructor.
The study of Japanese katakana words, which include loanwords from Western languages and pseudo-English Japanese words. An examination of how their pronunciation, meaning and/or grammatical structure is altered in a new linguistic and cultural environment. (Fully online course)

JAPN 350 Introduction to Translation (Units: 3)
Prerequisites: JAPN 250, JAPN 301, and JAPN 302, or equivalents.
Basic techniques, strategies, and issues in the field of non-literary translation using Japanese and English as source languages. Practical exercises include text analysis and development of translation skills.

JAPN 390 Business Japanese (Units: 3)
Prerequisites: JAPN 301 and JAPN 302 or equivalents.
Japanese business communication skills. Readings in economics, politics, and social issues.

JAPN 395 Advanced Business Japanese: Business Writing (Units: 3)
Prerequisites: JAPN 250, JAPN 301, and JAPN 302 or equivalents.

JAPN 401 Topics in Japanese Culture (Units: 3)
Prerequisites: JAPN 301, JAPN 302, and JAPN 305, JAPN 306; or JAPN 309.
Acquisition of advanced reading, speaking, writing, and listening skills through the analysis of Japanese culture, history, people's thought, and behavior. Topic to be specified in Class Schedule. May be repeated when different topics are studied.

JAPN 510 Modern Japanese Literature (Units: 3)
Prerequisites: JAPN 250 (knowledge of 1000 Educational Kanji or at least a C- on new Level 2), JAPN 301, JAPN 302, JAPN 305 or JAPN 306, JAPN 309, or equivalents.
Literary movements and major works of 20th century Japan.
Course Attributes:
  - Global Perspectives
JAPN 590 Topics in Japanese Literature (Units: 3)
Prerequisites: JAPN 250 (Level 3 of Kanji, with a grade of C- or better), JAPN 301, JAPN 302, JAPN 305 or JAPN 306, and JAPN 309, or equivalents.

Exploration of specific genres or topics of literature including Japanese Women Writers and Contemporary Japanese Literature. Topic to be specified in Class Schedule. May be repeated when topics vary.

JAPN 690 Introduction to Consecutive Interpretation (Units: 3)
Prerequisites: Near native fluency in English or Japanese and advanced level knowledge of the other.

Acquisition of skills in consecutive interpretation between Japanese and English in international business, manufacturing, and tourism.

JAPN 699 Independent Study (Units: 1-3)
Prerequisite: Consent of department chair and instructor.

Written projects requiring critical analysis and interpretation of linguistic or literary problems. Material adopted to individual needs and interests. May be repeated.

JAPN 710 Japanese Language Workshops (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Workshops designed to enhance Japanese language skills for professional applications and research purposes. Topics include Translation, Consecutive Interpretation, and Media Language. Topic to be specified in Class Schedule. May be repeated when topics vary.

JAPN 750 Seminar in Japanese Linguistics (Units: 3)
Prerequisite: JAPN 325 or equivalent.

Phonological, morphological, and semantic features of Japanese: current research and problems.

JAPN 760 Seminar in Pedagogical Japanese Linguistics (Units: 3)
Prerequisite: JAPN 325 or equivalent.

Problem areas of phonological, grammatical, and discourse structures of Japanese from a learning/teaching point of view.

JAPN 765 Second Language Acquisition (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Second language acquisition and learning; emphasis on learning Japanese as a second language.

JAPN 770 Seminar in Teaching Japanese (Units: 3)
Prerequisite: JAPN 750 or JAPN 760 or equivalent.

Analysis of available text materials and audio-visual aids for teaching Japanese. Instructional methods, techniques, and material for effective teaching.

JAPN 775 Seminar: Materials Development for Teaching Japanese (Units: 3)
Prerequisites: JAPN 325; JAPN 770 highly recommended.

Application of linguistic and pedagogical theories and principles to the development of materials for Japanese classes.

JAPN 780 Practicum in Teaching Japanese (Units: 3)
Prerequisites: JAPN 750, JAPN 760, and JAPN 770 or consent of instructor.

Application of linguistic and pedagogical knowledge to actual teaching of Japanese. (CR/NC grading only)

JAPN 800 Seminar in Analysis of Japanese Cultural Studies (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Recent trend of cultural studies of Japan: focus, method, and purpose of each work and their possible interrelations.

JAPN 860 Seminar: Topics in Japanese Literature (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

In-depth analytical study of Japanese literary texts of great importance, including The Tale of Genji, Noh plays, Hyakunin Isshu poems, and modern novels. Topic to be specified in Class Schedule. May be repeated when topics vary.

JAPN 890 Integrative Seminar: Japanese Language and Culture (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of Japanese language to study how it may reflect Japanese people's way of thinking, their relationship with one another and with nature, and their attitude about the place and role of individuals in society.

JAPN 895 Applied Research Project (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience forms must be approved by the Graduate Division before registration. (CR/NC grading only)

JAPN 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered JAPN 895 or JAPN 898 (or in some cases, JAPN 890 - see program's graduate advisor for further information). (CR/NC, RP)

JAPN 897 Research (Units: 1-3)
Prerequisite: JAPN 895 or JAPN 898 with SP grade.

Required of all students who have not completed the master's thesis or research project. May be repeated but units may not be counted toward the degree program. (CR/NC grading only)

JAPN 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience forms must be approved by the Graduate Division before registration. (CR/NC grading only)

JAPN 899 Independent Study (Units: 1-3)
Prerequisites: Consent of graduate major adviser and the supervising faculty member.

Study is planned, developed, and completed under the direction of a member of the faculty. Open only to advanced graduate students who have demonstrated ability to do independent work. Enrollment by petition.
Jewish Studies (JS)

JS 280 Introduction to Jewish Studies (Units: 3)
Prerequisite: ENG 114 or equivalent.

Foundational beliefs, stories, and practices of the Jewish religious tradition; various transformations the tradition has undergone throughout history and into the modern period.
Course Attributes:
• C2: Humanities

JS 301 Judaism, An Introduction (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Explores religious and cultural practices of Judaism in United States by surveying religious practices of Orthodox, Conservative, Reform, and Reconstructionist Jewish congregations. Relates these practices to Jewish experience and history.
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

JS 317 The Holocaust and Genocide (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Process and conditions which led to the harassment, expulsion, and extermination of the Jews during World War II; new information about the concentration camp system.
(This course is offered as HIST 317 and JS 317. Students may not repeat the course under an alternate prefix.)

JS 350 Jewish Social Responsibility (Units: 3)
Prerequisite: ENG 214 or equivalent.

A 2,000 year history of a people commanded to repair the world. From Biblical sources defining the nature of poverty to contemporary philosophical debates on issues as varied as social inequality and care for the environment. [CSL may be available]
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

JS 377 Jerusalem (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.

The dynamics of Jerusalem’s intellectual, artistic, and social life with emphasis on the great works that symbolize the contribution of that city to human culture.
(This course is offered as HUM 377 and JS 377. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

JS 378 Beyond the Bagel (Units: 3)
Prerequisite: ENG 214 or equivalent.

Explores “food” in Jewish culture from Bible to current Jewish communities, including Israeli fusion food, and Jewish-American cuisine. By analyzing “authenticity and purity” in Jewish kitchens, students learn literature, folklore of Jewish cooking.

JS 405 Film and the Holocaust (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

The use of film to promote, document, and dramatize the Holocaust. Filmmakers who have sought to give expression to its human scale. Significant works which have helped define the issues. (This course is offered as CINE 305 and JS 405. Students may not repeat the course under an alternate prefix.)

JS 408 Israeli Cinema (Units: 3)
Prerequisite: ENG 214 or equivalent.

Survey of Israeli cinema with critical readings. (This course is offered as JS 408 and CINE 408. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

JS 410 Kabbalah and Mysticism in the Jewish Tradition (Units: 3)
Prerequisite: ENG 114 or equivalent.

The spiritual life and various ways in which Jews have sought spiritual resources from Jewish tradition. Topics include: Kabbalah, Jewish renewal, feminist spirituality, grieving the Holocaust. (This course is offered as JS 410 and PHIL 514. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

JS 414 Arendt and Heidegger (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.

Hannah Arendt, a student of Heidegger, is renowned in her own right as philosopher and political theorist. In a comparative study explore the relationship of their ideas, and question the extent to which she was disciple or critic. (This course is offered as HUM 434, JS 414, and PHIL 434. Students may not repeat the course under an alternate prefix.)

JS 415 The Hebrew Bible (Units: 3)
Prerequisite: ENG 214 or equivalent.

The Hebrew Bible in English translation from historical, literary, and religious points of view; culture and religion of ancient Israel and the ancient Near East. (This course is offered as JS 415 and PHIL 415. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
JS 421 Food Fights: The Politics of American Jewish Consumption, 1654-Present (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of the politics of religion, food, and eating among Jews in the US from the late nineteenth century to the present. Focus on American Jewish foodways: cultural, social, historical, political, and economic practices of food production and consumption that have sustained and demarcated Jewish communities. (This course is offered as JS 421 and HIST 421. Students may not repeat the course under an alternate prefix.)

JS 425 Judaism: Religion and Text (Units: 3)
Prerequisite: ENG 214 or equivalent.
The manner and process of external/internal influences that move Jewish thought; the matters with which the rabbis and particular Jewish philosophers have concerned themselves. (This course is offered as JS 425 and PHIL 552. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities

JS 430 Israeli Democracy: Politics, Institutions, and Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Knowledge of Israel's political system, its origins, its formal structure, the way it functions, and its main attributes in comparison to other democratic political systems. Ideology, state and religion, and civil liberties. (This course is offered as JS 430, IR 430, and PLSI 430. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

JS 437 Holocaust and Literature (Units: 3)
Prerequisite: ENG 214.
Fiction and non-fiction Holocaust literature by Saul Bellow, T. Borowski, Etty Hillesum, I.B. Singer, and Elie Wiesel. (This course is offered as JS 437, ENG 533, and CWL 437. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

JS 441 American Jews and Popular Culture (Units: 3)
Prerequisite: ENG 114 or equivalent.
Examination of presentation and participation of Jews in American popular culture of the 20th and 21st centuries. Focused on the representation of Jews and Judaism in film, television, and media. Representation of Jews and Judaism in literature, athletics, food, museums, and consumer culture also addressed. (This course is offered as JS 441, HIST 441 and HUM 441. Students may not repeat the course under an alternate prefix.)

JS 449 American Jewish History (Units: 3)
Prerequisite: ENG 114 or equivalent.
American Jewish History from 1654 to the present. Traces social, political, religious and economic history of Jews in colonial America and the United States. Topics: influence of government, immigration, religion, anti-Semitism, regionalism, acculturation. (This course is offered as JS 449 and HIST 449. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- U.S. History
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

JS 451 Jewish Literature of the Americas (Units: 3)
Prerequisite: ENG 214 or equivalent.
Explores literature of the Americas through the lens of Jewish identity and tradition. Texts in translation from Latin America, Canada, and the US reveal how Jewish writers have rethought modernity's intersection with Jewish traditions. (This course is offered as JS 451, CWL 451, and ENG 451. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives

JS 480 European Jewish Writers (Units: 3)
Prerequisite: ENG 214 or CWL 214 or equivalent.
Survey of the works of modern Jewish writers throughout Europe between the nineteenth- and twentieth-centuries; influence of the Jewish Enlightenment on modern Jewish literature. (This course is offered as JS 480 and CWL 480. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

JS 485 Modern Israeli Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of the works of modern Israeli writers of fiction, poetry, and drama; conceptual underpinnings of modern Israeli aesthetic projects in literature; how Israel's multilingual heritage marks the modern writer.

JS 497 Topics in Israel Studies (Units: 3)
Prerequisite: ENG 214 or equivalent.
In-depth exploration of one or more specific topics in Israel Studies with disciplinary approaches that may span the humanities, social sciences, and arts. Topics to be specified in the Class Schedule. May be repeated for a total of 9 units as topics vary. (Formerly JS 477)
JS 501 Judaism, Christianity, and Islam (Units: 3)
Prerequisite: ENG 114 or equivalent.
Beliefs, practices, social organization, and history of the three
monothestic religious traditions; importance of these traditions for
European and Middle Eastern civilizations. (This course is offered as JS 501, PHIL 501, and HUM 501. Students may
not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Global Perspectives

JS 530 Yiddish Literature, History, and Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of Yiddish literature, history, culture, and society in Europe,
America, and Israel through Yiddish fiction, poetry, and theater, as well as
journalism, political writing, philosophy, and religion.

JS 540 Anti-Semitism (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of the historical, political, cultural, and religious contexts and
manifestations of anti-Semitism. Examines its different forms and
trajectories and evaluates its effects on both Jews and non-Jews and
Jewish and non-Jewish societies.
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Global Perspectives
  • Social Justice

JS 546 20th Century American Jewish Women Writers (Units: 3)
Prerequisite: ENG 546 and WGS 546. Students may
not repeat the course under an alternate prefix.
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Global Perspectives

JS 560 The Arab-Israeli Conflict (Units: 3)
Prerequisite: ENG 114 or equivalent.
Examination of causes of the Arab-Israeli conflict; beginnings in the late
nineteenth century; Jewish-Palestinian confrontation during the British
Mandate (1917-1948); Arab-Israeli wars since 1948; Israeli-Palestinian
confrontation since 1948; attempts to end the confrontation since 1967.
(This course is offered as JS 560 and IR 530. Students may not repeat
the course under an alternate prefix.)
Course Attributes:
  • UD-D: Social Sciences
  • Global Perspectives

JS 600 Internship (Units: 3)
Prerequisites for JS 800: Admission to certificate program and consultation with program director.
Prerequisite for JS 600: Consultation with program director.
Supervised work in the setting of a Jewish communal organization or an
institution serving Jewish clients. [CSL may be available]
(JS 800/JS 600 is a paired course offering. May be repeated for a total of
6 units at one level. Students who have completed the course at one level
may not take or repeat the course at another level.)
JS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of supervising faculty member. Enrollment is by petition. Open only to graduate students who have demonstrated the ability to do independent work.

Study is planned, developed, and completed under the direction of a member of the program faculty. May be repeated for a total of 6 units.
Journalism (JOUR)

JOUR 205 Social Impact of Journalism (Units: 3)
History, organization, social role and function of journalism.
Course Attributes:
- C2: Humanities

JOUR 221 Newswriting (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C or better; typing skills 25 wpm.
Development of news judgment and clear writing skills. Grade of C or better required to continue to JOUR 300GW. (Plus-minus letter grade only)

JOUR 222 Newswriting Lab (Unit: 1)
Prerequisite: ENG 214 or equivalent with a grade of C or better.
Associate Press style writing, English grammar, and punctuation. (Plus-minus letter grade only)

JOUR 226 Digital News Gathering (Units: 3)
Prerequisites: Restricted to journalism major or minor; JOUR 205 or equivalent and JOUR 221 or equivalent, each with a grade of C or better.
Development of multimedia skills, online research and analysis, and other components of multimedia storytelling. (Plus-minus letter grade only)

JOUR 235 Photojournalism I (Units: 3)
Photojournalistic style and content. Taking pictures of people, telling stories, conveying information. Must have interchangeable lens digital camera. Extra fee required. (Plus-minus letter grade only)
Course Attributes:
- C1: Arts

JOUR 300GW Reporting - GWAR (Units: 3)
Prerequisites: Restricted to Journalism major or minor; ENG 214 with a grade of C- or better or equivalent, JOUR 205, and JOUR 221, each with a grade of C or better.
Advanced concepts of news gathering, interviewing, and writing. Cover San Francisco and Oakland neighborhoods. Need a C grade or better to continue to advanced courses. (ABC/NC grading only)
Center for Advanced Writing and Reporting.
Course Attributes:
- Graduation Writing Assessment

JOUR 307 News Media Law and Ethics (Units: 3)
Prerequisites: Upper division standing and Journalism major or minor.
News media law and ethics using studies and practical application in journalism; access to public records, constitutional guarantees, ethical responsibilities in reporting, and publications of stories. (Plus-minus letter grade only)

JOUR 320 Investigative Reporting (Units: 3)
Prerequisites: Journalism major or minor; JOUR 300GW with a grade of C or better.
Problems and methodology of investigative journalism; techniques of documentation; from theory to practical application. A grade of C or better required to continue to JOUR 609. (Plus-minus letter grade only)

JOUR 321 Feature Writing (Units: 3)
Prerequisites: Journalism major or minor; JOUR 300GW with a grade of C or better; or consent of instructor;
Theory and practice of writing newspaper and magazine stories. Definition of a feature; topics, interviewing techniques, deadline writing; freelancing. A grade of C or better required to enroll in JOUR 609. (Plus-minus letter grade only)

JOUR 328 Anthropology and Photography (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the documentary, social, political, and aesthetic roles of photography (and the archive and photo-essay) in anthropology as a mode of representation and control, but also of resistance. (This course is offered as ANTH 328 and JOUR 328. Students may not repeat the course under an alternate prefix.)

JOUR 330 Editing (Units: 3)
Prerequisites: Restricted to journalism major or minor; JOUR 205, JOUR 221 and JOUR 222, each with a grade of C or better.
Theory and practice of editing; fundamental copy editing, rewrite and layout techniques, headline writing, restructuring, and trimming; story ideas and assignments; page design concepts. (Plus-minus letter grade only)

JOUR 335 Photojournalism II (Units: 3)
Prerequisites: Restricted to journalism major or minor; JOUR 235 with a grade of C or better.
Components of photojournalism; portrait, sports, feature, news, and picture story to create portfolio. Must have interchangeable lens digital camera. Extra fee required. (Plus-minus letter grade only)

JOUR 336 Visual Storytelling (Units: 3)
Prerequisites: JOUR 205 and JOUR 221 (or equivalent) with grades of C or better.
How visual imagery shapes perception of news; power of photography, graphics and design to communicate journalistically in print and on-line. When images convey more than words; when images mislead. (Plus-minus letter grade only)

JOUR 395 Online Journalism (Units: 3)
Prerequisites: Restricted to journalism major or minor; JOUR 226 and JOUR 300GW with grades of C or better.
Multimedia production for journalists; creation of electronic outlet of text, sound, archived video, and graphics for news. Extra fee required. (Plus-minus letter grade only)

JOUR 400 Multimedia Journalism (Units: 3)
Prerequisites: Restricted to Journalism majors and minors; JOUR 226 and JOUR 300GW each with a grade of C or better;
Employ multiple visual platforms and storytelling structures to produce online journalism. Extra fee required. (Plus-minus letter grade only)
[Formerly JOUR 635]

JOUR 409 Directed Study in Journalism (Units: 1-3)
Prerequisite: Consent of instructor or department.
Individual projects: research, investigations, depth reporting, writing, graphics, surveys, audience studies, and internships. May be repeated for a total of 6 units with consent of department.
JOUR 410 Building Chinese Media Literacy (Units: 3)
Prerequisite: CHIN 401 or consent of instructor.

Vocabulary, structures, styles, and topics of contemporary Chinese media. Newspapers, radio and television broadcasts, websites, blogs, and social media of Greater China. Intensive focus on reading and listening, augmented by writing and presentation assignments. (This course is offered as CHIN 410 and JOUR 410, and is taught in Chinese. Students may not repeat the course under an alternate prefix.)

JOUR 411 Media Chinese (Units: 3)
Prerequisite: CHIN 401 or consent of instructor.

Mandarin as it is used in various genres on radio/television and in news reports and articles, editorials, interviews, and advertisements. (This course is offered as CHIN 411, IR 413, and JOUR 411. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- Global Perspectives

JOUR 426 Data Journalism (Units: 3)
Prerequisites: Restricted to journalism majors and minors; JOUR 226, JOUR 300GW, and JOUR 395, each with a grade of C or better.

Exploration and application of techniques of data analysis, processing and visualization to build interactive journalism elements and projects. (Plus-minus grading only)

JOUR 435 Photojournalism III (Units: 3)
Prerequisites: JOUR 221, JOUR 300GW, and JOUR 335 with grades of C or better; or consent of instructor.

Picture story concepts and development. Photojournalism legal and ethical issues. Must own camera and media file. Lab fee required. (Plus-minus letter grade only)

JOUR 450 Publication Design and Graphics (Units: 3)
Prerequisite: JOUR 221 with a grade of C or better or consent of instructor.

Editorial design and production for newspapers and magazines; design as support for message. Vocabulary, concepts, and skills of editorial designer and photo editor with migration to internet and web. Extra fee required. (Plus-minus letter grade only)

JOUR 452 International Media Politics (Units: 4)
Prerequisites: Upper division standing and ENG 214 or equivalent.

Examination of how communication among states and non-state entities shapes international relations, from the perspective of various theoretical and epistemological approaches. (This course is offered as IR 452 and JOUR 452. Students may not repeat the course under an alternate prefix.)

JOUR 495 Profiles (Units: 3)
Prerequisites: Upper division standing; journalism major or minor; JOUR 226 and JOUR 300GW with grades of C or better.

Investigation and implementation of profile reporting and storytelling techniques, using a combination of multimedia tools of the students' choice: writing, photography, video and/or online interactivity to bring people's stories alive through keen observation, captivating dialogue, proper tone, effective structure and organization. Activity. (Plus-minus letter grade only)

JOUR 500 Contemporary Magazines (Units: 3)
Prerequisites: Upper division standing; journalism major or minor; or consent of instructor.

Development and role of contemporary magazine; rise of specialized periodicals. Magazine start-ups, dynamics of editorial strategy and planning; editing, design, and short article writing. (Plus-minus letter grade only)

JOUR 535 Photojournalism IV (Units: 3)
Prerequisite: JOUR 335 with a grade of C or better.

Advanced photojournalism color and lighting techniques, including operation of portable and studio strobes. Photo illustrations and food and fashion pictures. Must provide camera and film. Extra fee required. (Plus-minus letter grade only)

JOUR 536 Latina/o Journalism (Units: 3)
Prerequisite: LTNS 530.

Overview of U.S. Latina/o journalism from the mid-1800s to the present day, provides insight into the ways in which Latina/os have utilized journalism as a way to merge activism and community formation. [CSL may be available] (This course is offered as LTNS 536 and JOUR 536. Students may not repeat the course under an alternate prefix.)

JOUR 560 Public Journalism (Units: 3)
Prerequisites: Restricted to journalism majors and minors; JOUR 300GW with a grade of C or better.

Examination of failure of news media to provide accurate and substantive coverage of poor communities and communities of color. Students learn public journalism practices and techniques to engage communities to find solutions and to participate in the democratic process. (Plus-minus letter grade only)

JOUR 570 Opinion Writing (Units: 3)
Prerequisites: Restricted to journalism major or minor; JOUR 221 and JOUR 300GW with grade of C or better.

Principles and techniques of effective column and op-ed writing. Strategies for getting published. Emphasis on research and critical thinking. History and importance of editorial writing versus news coverage. (Plus-minus letter grade only)

JOUR 575 Community Media (Units: 3)
Prerequisites: JOUR 221 and JOUR 300GW each with a grade of C or better.

Students will gain experience producing stories for community news outlets, ethnic news outlets, hyperlocal sites, niched-oriented news in Bay Area. Explore the value, relevance and role of these alternative media publications.

JOUR 580 Environmental Journalism (Units: 3)
Prerequisites: Major in journalism or major in environmental studies with a concentration in humanities and the environment; JOUR 300GW or ENVS 450GW.

Examination and practice of environmental journalism through reading and analysis of selected examples along with research and reporting necessary for completion of short and long word, photo and multimedia stories. (Plus-minus letter grade only)
JOUR 582 Social Media Journalism (Units: 3)
Prerequisites: Restricted to journalism majors or minors; completion of JOUR 221 and JOUR 300GW with a grade of C or better.
Examination and practice of gathering, researching, promoting and distributing news through social media. (Plus-minus letter grade only)

JOUR 595 Magazine Writing (Units: 3)
Prerequisites: Journalism major or minor; JOUR 221 and JOUR 300GW with grades of C or better.
Principles and techniques of magazine writing, developing, researching, and writing factual articles. Markets and steps necessary to get published. Grade of C or better necessary to continue to JOUR 609. (Plus-minus letter grade only)

JOUR 605 Magazine Publication Lab (Units: 3)
Prerequisites: Restricted to upper division Journalism major or minor; JOUR 222, JOUR 300GW and JOUR 321 or JOUR 595 with grades of C or better.
Production of three to four editions of Xpress Magazine including updates of the Xpress Magazine website and all related social media networks. May be repeated for a total of 6 units. Extra fee required. (Plus-minus letter grade only)

JOUR 607 Publication Lab for Photojournalism Students (Units: 3)
Prerequisites: JOUR 221, JOUR 222, and JOUR 335.
Photography for the SF State Golden Gate Xpress print and on-line publication. (Plus-minus letter grade only)

JOUR 608 News Bureau Publication Lab (Units: 3)
Prerequisites: Journalism major or minor; JOUR 609 with a grade of C or better; or consent of instructor;
News bureau: planning, reporting, editing, and fact-checking; shooting photos for publication in San Francisco area newspapers. May be repeated for 6 units for degree credit. (Plus-minus letter grade only)

JOUR 609 Publication Laboratory (Units: 3)
Prerequisites: Restricted to upper division journalism major or minor; JOUR 222 and JOUR 300GW with grades of C or better, or JOUR 222 and JOUR 335 with grades of C or better.
Reporting, writing, photography, editing, producing print and on-line publication. Extra fee required. May be repeated for a total of 6 units for degree credit. (Plus-minus letter grade only)

JOUR 610 Cultural Diversity and News Media (Units: 3)
Prerequisites: Upper division standing and ENG 214 or equivalent.
Exploration of how the practice of news gathering influences social reality. Exploration of issues facing U.S. news media as they struggle to understand an increasingly diverse society. Historical overview of the problem and discussion on current obstacles facing journalists’ efforts to improve coverage and newsroom representation.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Social Justice

JOUR 617 Journalism Internship (Units: 3)
Prerequisites: Restricted to journalism major or minor; JOUR 609 with a grade of C or better; approved internship proposal required prior to enrolling in the course.
Credit for approved internship with employers in the news, magazine or online industry. Reflection on experiences in class blog, resume package preparation and online portfolio of work. Option to second semester of JOUR 609. (CR/NC only)

JOUR 645 Journalism in China (Units: 3)
Prerequisites: Upper division standing; admission to the Chinese Flagship program or consent of instructor.

JOUR 650 Seminar: Contemporary News (Units: 3)
Prerequisites: Journalism major or minor; JOUR 226 and JOUR 300GW with grades of C or better.
Trends in contemporary news including reporting techniques, news delivery and journalistic storytelling. (Plus-minus letter grade only)

JOUR 667 Seminar: Topics in Journalism (Units: 3)
Prerequisites: Journalism major or minor; JOUR 300GW with a grade of C or better; or consent of department.
Class advances journalistic reporting and writing techniques to produce publishable newspaper, online and magazine articles in areas such as international, business, sports, literary journalism, culture and food. Fulfills the advanced writing elective requirement. Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grading only)

JOUR 670 Research Methods on Journalism (Units: 3)
Prerequisites: Upper division standing; completion of a GWAR course with a grade of C or better.
Critical inquiry and analysis of peer-reviewed research and the research process on journalism, providing students with added depth to understanding journalism’s impact and the processes and structures that dictate it. (Plus-minus letter grade only)

JOUR 675 News Entrepreneurship (Units: 3)
Prerequisite: JOUR 300GW with a grade of C or better.
Developing and applying new business models for journalism; using media trends and media innovations to capture new audiences for news and features. (Plus-minus letter grade only)

JOUR 680 Advanced Multimedia Journalism (Units: 3)
Prerequisites: Journalism major or minor; JOUR 226 and JOUR 395 with grades of C or better;
Exploration and application of techniques of interactivity and web-based and mobile application development toward team-driven long-form journalism and public information projects. (Plus-minus letter grade only)
JOUR 685 Projects in the Teaching of Journalism (Units: 1-3)
Prerequisite: Completion with a grade of C or better in a course in which student will be aide, and consent of instructor.

Students are paired with Journalism faculty in supervised practicum to assist in teaching and to complete directed projects. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

JOUR 695 Senior Seminar (Units: 3)
Prerequisites: Journalism major or minor; JOUR 609 with a grade of C or better.

Journalism publishing project applying skills and knowledge of the major.
(Plus-minus letter grade only)

JOUR 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Intensive study and investigation of a selected problem under the supervision of an instructor. (CR/NC only)
Kinesiology (KIN)

KIN 100 Aerobics: Low Impact (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors.
Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 103 Aerobics: Steps (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors.
Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 124 Fitness and Conditioning (Units: 2)
Prerequisite: Priority enrollment is given to Kinesiology majors.

KIN 127 Personalized Fitness Programs (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors.

KIN 136 Hatha Yoga (Unit: 1)
Physical activity course.

KIN 139 Jogging (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 142 Elementary Judo (Unit: 1)
Physical activity course.

KIN 145 Elementary Karate (Unit: 1)
Physical activity course.

KIN 148 Elementary Kung Fu (Unit: 1)
Physical activity course.

KIN 151 Tae Kwon Do (Unit: 1)
Study in the Korean martial art form of Tae Kwon Do. Focus upon learning the movement forms, the historical and cultural significance of this art form, and the modern evolution of Taekwondo.

KIN 158 Personal Defense (Units: 2)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 161 Shaolin Chuan: Tan-Tui (Unit: 1)
Physical activity course.

KIN 164 Elementary Soccer (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 171 Beginning Swimming: Non-Swimmers (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 172 Elementary Swimming (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 173 Aquatic Fitness (Unit: 1)
Prerequisite: Ability to execute basic strokes with comfort in deep water. Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 175 Elementary Tai-Chi Chuan (Unit: 1)
Physical activity course.

KIN 178 Elementary Tennis (Unit: 1)
Physical activity course.

KIN 189 Weight Training: Beginners Only (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 190 Weight Training (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 191 Individualized Weight Training (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis.

Weight training conducted in an open gym format. Students clock in and work out, under supervision, according to an approved program of 100 minutes per week distributed in at least two sessions. Assessment of strength in various muscle groups. Attend lectures on various approaches to strength training.

KIN 236 Intermediate/Advanced Hatha Yoga (Units: 2)
Prerequisite: KIN 136 or consent of instructor.


KIN 242 Intermediate/Advanced Judo (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis. Physical activity course.

KIN 250 Introduction to Kinesiology (Units: 3)
Prerequisites: Completion of GE Areas A and B4 requirements [formerly GE Segment I] with grades of C or better; priority given to undeclared with interest in KIN or declared KIN major. Introduction to and examination of kinesiology and its various subfields; exploration of career opportunities. Classwork, 2 units; laboratory, 1 unit.
KIN 251 Success in the Kinesiology Major (Units: 2)
Prerequisite: Kinesiology major.
A quality advising experience in a learning-centered environment that will prepare students to be active learners engaged in their educational and life goals while teaching them to become self-sufficient lifelong learners. (Plus-minus ABC/NC)

KIN 255 Health-related Fitness and Wellness (Units: 3)
Prerequisite: Completion of GE Areas A and B4 requirements [formerly GE Segment I] with grades of C or better; enrollment in activity class recommended.
Exploration of the roles of regular exercise, healthy eating habits, and stress management in the maintenance of health related fitness and wellness over the lifespan. Classwork, 2 units; laboratory, 1 unit.
Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences
- Environmental Sustainability
- Global Perspectives
- Social Justice

KIN 257 Wellness, Fitness and the Global Perspective (Units: 3)
Introduction to human anatomy, physiology, the basic principles of exercise and wellness, and to the benefits and limitations of wellness practices around the world; blending physical movement and fitness training with academic skills including critical reading, research, and scholarly presentations. Classwork, 2 units; activity, 1 unit. (Plus-minus ABC/NC, CR/NC)
Course Attributes:
- E1: Lifelong Learning Develop
- Global Perspectives

KIN 272 Intermediate/Advanced Swimming (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis.
Physical activity course.

KIN 275 Intermediate/Advanced Tai-Chi Chuan (Units: 2)
Physical activity course.

KIN 294 CPR (Unit: 1)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis.
General instructions and specific procedures for providing cardiopulmonary resuscitation and basic life saving techniques. Certification in CPR for adults, children, and infants.

KIN 295 First Aid and Cardiopulmonary Resuscitation (CPR) (Units: 2)
Prerequisite: Priority enrollment is given to Kinesiology majors. Students in other majors may be admitted on a space available basis.
Instruction and specific procedures for providing immediate care to a person who has been injured or is experiencing a medical emergency. Certification in CPR of adults, children, and infants and Standard First Aid are provided.

KIN 298 Practicum in Kinesiology (Unit: 1)
Prerequisites: Consent of instructor and associate chair.
Individually directed experiences as leadership assistants in movement activities.

KIN 299 Practicum in Kinesiology (Unit: 1)
Prerequisites: Consent of instructor and associate chair.
Individually directed experiences as leadership assistants in movement activities.

KIN 305 Instructional Analysis: Track, Field, and Gymnastics Floor Activities (Units: 2)
Prerequisites: KIN 340 or consent of instructor. Sufficient experience to demonstrate basic proficiency in performing the fundamental skills of the activities in this course; otherwise, it is recommended that the student take the corresponding activity course(s) prior to enrolling in this class.
Analysis of fundamental skills and strategies in track and field and in gymnastics floor activities, for teaching and coaching beginning and intermediate learners. Progressions, feedback, structuring effective learning environments in various teaching situations, individual differences.

KIN 306 Instructional Analysis: Racquet Sports (Units: 2)
Prerequisites: KIN 340 or consent of instructor. Sufficient experience to demonstrate basic proficiency in performing the fundamental skills of the activities in this course; otherwise, it is recommended that the student take the corresponding activity course(s) prior to enrolling in this class.
Analysis of fundamental skills and strategies in badminton and tennis for teaching and coaching beginning and intermediate learners. Skill progressions, feedback, structuring effective learning environments, individual differences. Classwork, 1 unit; laboratory, 1 unit.

KIN 307 Instructional Analysis: Basketball and Volleyball (Units: 2)
Prerequisites: KIN 340 or consent of instructor. Sufficient experience to demonstrate basic proficiency in performing the fundamental skills of the activities in this course; otherwise, it is recommended that the student take the corresponding activity course(s) prior to enrolling in this class.
Analysis of fundamental skills and strategies in basketball and volleyball for teaching and coaching beginning and intermediate learners. Skill progressions, feedback, structuring effective learning environments, individual differences. Classwork, 1 unit; laboratory, 1 unit.

KIN 308 Instructional Analysis: Fitness Activities (Units: 2)
Prerequisites: KIN 255 (may be taken concurrently); successful completion of fitness assessment; or consent of instructor.
Analysis of fundamental skills and strategies in teaching a variety of fitness activities. Classwork, 1 unit; laboratory, 1 unit.

KIN 309 Instructional Analysis: Soccer and Softball (Units: 2)
Prerequisites: KIN 340 or consent of instructor. Sufficient experience to demonstrate basic proficiency in performing the fundamental skills of the activities in this course; otherwise, it is recommended that the student take the corresponding activity course(s) prior to enrolling in this class.
Analysis of fundamental skills and strategies in soccer and softball for teaching and coaching beginning and intermediate learners. Skill progressions, feedback, structuring effective learning environments, addressing individual differences. Classwork, 1 unit; laboratory, 1 unit.
KIN 322 Sport in America (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly GE Segment I].

Interpretation of contemporary issues in sport from the perspective of American society. Professional sport, women in sport, and youth sport using a multimedia approach that includes film, print media, literature and historical texts.

KIN 325 Computer Applications in Kinesiology (Units: 3)
Prerequisites: Upper division standing or consent of instructor; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4. Enrollment priority to kinesiology majors.

Information management for kinesiology applications using computerized word processing, spreadsheets, graphics, outlining, and databases. Classwork, 2 units; laboratory, 1 unit.

KIN 331 Peak Performance (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4.

Examination and understanding of the stress process, assessments of stress and the application of psychological intervention strategies to help bring about optimum performance in human movement as well as other endeavors. Practical application for maximizing human potential.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences
- Global Perspectives
- Social Justice

KIN 340 Orientation to Teaching Physical Education (Units: 3)
Prerequisites: Upper division standing or consent of instructor; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.

Professionalism in school-based physical education. Contemporary view of physical education, guided observation in K-12 schools, self-assessment, and plan for professional development as a prospective teacher. Physical education as a career choice. (Plus-minus letter grade only.)

KIN 355 Science, Sport, and Fitness (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly Segment I].

Physiological and mechanical principles of sport and fitness. Evaluation of myths and truths about sport science, nutrition, injury prevention, physiology of exercise, sport, and individualizing training programs.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science

KIN 384GW Research Methods in Kinesiology - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better; KIN 250 and MATH 124 or equivalent all with grades of C or better. Restricted to declared Kinesiology major.

Understanding and applying research methods and statistics relevant for studying kinesiology. Topics include sampling, validity, reliability, experimental design, qualitative approaches, and statistical analyses. Development of students’ critical thinking and writing abilities specific to the discipline of kinesiology (Plus-minus ABC/NC)

Course Attributes:
- Graduation Writing Assessment

KIN 401 Elementary School Physical Education, K-5 (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly Segment I]. Physical education majors must take concurrently with KIN 402.

Movement, fitness, and skill programs for children. Objectives, organization, and conduct of successful physical education programs. Classwork, 2 units; laboratory, 1 unit.

KIN 402 Practicum in Physical Education, N-5 (Unit: 1)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly Segment I]. Physical education majors must take concurrently with KIN 401.

Directed experiences as teaching assistants of physical education in preschool and elementary school programs.

KIN 437 Physical Dimensions of Aging (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250, BIOL 220 or BIOL 328, and BIOL 212, all with grades of C- or better; and GE completion of Area A and GE Area B4.

Study of the physical aspects of aging from a developmental perspective in the adult years; the role of exercise/activity in the maintenance of functionality; hypotheses of physical decline, implications of age-related physical changes for daily living and activity patterns.

(KIN 737/KIN 437 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

KIN 457 Culture, Gender, and Movement (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.

Transmission of culture, values, and gender roles through a variety of movement forms. Interpretation of the cultural dimension of movement.

Course Attributes:
- Global Perspectives

KIN 480 Anatomical Kinesiology (Units: 4)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250, BIOL 220 or BIOL 328, all with grades of C or better; and GE completion of Area A and GE Area B4.

Structure and function of the musculoskeletal system in movement; relation to external forces; principles of aggregate muscle function. Application to exercise, skill, activities of daily living. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only.)
KIN 482 Exercise Physiology (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; completion of KIN 250, BIOL 212 and BIOL 213, or equivalent, all with grades of C or better. Must be taken concurrently with KIN 483.

Examination of the acute physiological responses to exercise and the adaptations that occur with systematic exercise training.

KIN 483 Exercise Physiology Laboratory (Unit: 1)
Prerequisites: Upper division standing or consent of instructor; completion of KIN 250, BIOL 212 and BIOL 213, or equivalent, all with grades of C or better; must be taken concurrently with KIN 482.

Effects of various types of exercise on the body's physiological systems. Laboratory. (Plus-minus letter grade only)

KIN 485 Biomechanics (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; completion of GWAR requirements; completion of GE Area A and B4 requirements; PHYS 101/PHYS 102 or PHYS 111/PHYS 112, BIOL 220 or BIOL 328, KIN 250, KIN 480, all with grades of C or better.

Mechanical principles applied to analyzing human movement. Interaction of mover and physical environment, efficiency in tasks of daily living, work settings, sport, and exercise. (Plus-minus letter grade only)

KIN 486 Motor Learning (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4. Concurrent enrollment in an activity course is recommended.

Acquisition and development of motor skill with application to teaching and therapeutic intervention. Coordination, perception, task analysis, learning, and the facilitation of skill acquisition.

KIN 487 Motor Development (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.

Developmental perspective on the physical, psychological, and social factors which contribute to the acquisition of motor control and movement performance from the prenatal stage through old age.

KIN 488 Assessment in Physical Education (Units: 3)
Prerequisite: Completion of quantitative reasoning requirement with a grade of C or better or consent of instructor.

Testing and measuring performance; history of test construction and use; selected statistical methods; test administration and evaluation. Classwork, 2 units; laboratory, 1 unit.

KIN 489 History and Philosophy of Sport and Physical Activity (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.

History and philosophy of physical activity from ancient times to the early 20th century. Evolution of attitudes towards exercise and physical fitness.

KIN 490 Introduction to Sport and Fitness Program Management (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.

Introduction to the academic and professional field of sport and fitness administration and management by grounding students in the history, socio-cultural context, and structure of community and private fitness clubs and university, elite amateur, and professional sports organizations.

KIN 502 Sport and Social Issues (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly Segment I].

Influences of media, politics, economy, social attitudes on sport institutions from childhood practices to professional athletics. Race, gender, and social class perspectives.

KIN 504 Sport and Exercise Psychology (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.

Psychological factors influencing performance of physical activity in sport, exercise, educational, and rehabilitative settings, including social implications, theoretical perspectives, and application of research findings in the areas of sport and exercise psychology. (Plus-minus letter grade only)

KIN 510 Sport, Movement, and Screen Culture (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly GE Segment I].

Examination of how the cultural, political, psychological, and historical dimensions of sport and other forms of movement are portrayed in feature films and documentaries. Presentations of identify, power, performance, social justice, and the body are also analyzed.

KIN 536 Movement for Individuals with Mild Disabilities (Units: 4)
Prerequisites: Upper division standing or consent of instructor; KIN 250 with a grade of C or better and six units of upper division Kinesiology courses; and GE completion of Area A and GE Area B4.

Mild and moderate disabling conditions throughout the lifespan as they relate to the development and efficiency of movement. Implications for design and conduct of movement programs, inclusion and evaluation of individual needs. Classwork, 3 units; laboratory, 1 unit.

KIN 537 Movement for Individuals with Severe Disabilities (Units: 3)
Prerequisites: Upper division standing or consent of instructor; KIN 250 with a grade of C or better and six units of upper division Kinesiology courses; and GE completion of Area A and GE Area B4.

Severe and profound disabling conditions throughout the lifespan as they relate to the development and efficiency of movement. Implications for design and conduct of movement programs, inclusion, and evaluation of individual needs.

KIN 538 Therapeutic Exercise (Units: 3)
Prerequisites: Restricted to upper division standing; KIN 250 with a grade of C or better; KIN 482/KIN 483 or KIN 355, KIN 480; and GE completion of Area A and GE Area B4.

Fitness programming, conditioning, and stress reduction for individuals who are disabled. Factors that influence exercise and the disabled include positioning, use of assistive devices, specifically designed equipment, wheelchairs, and utilization of personal aids.

KIN 539 Motor Assessment of Individuals with Disabilities (Units: 3)
Prerequisites: Restricted to upper division standing; KIN 250 with a grade of C or better; KIN 536, KIN 537 recommended; and GE completion of Area A and GE Area B4.

Evaluation and diagnosis of motor ability problems for individuals with disabilities. Evaluation methods and the development of individual education plans.
KIN 555 Exercise Testing and Prescription (Units: 3)
Prerequisites: Upper division standing; KIN 189 or equivalent, KIN 480, KIN 482, KIN 483; or consent of instructor.
Principles and practices of prescribing exercise to healthy individuals, and individuals with conditions such as cardiac problems, asthma, diabetes, pregnancy, and physical disabilities. Assists in preparation for ACSM certification. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only.)

KIN 570 Directed Coaching Experience (Unit: 1)
Prerequisites: Upper division standing or consent of instructor; completion of the GE Area A4 requirement and two additional courses in GE Areas A and B4 [formerly GE Segment I]; completion of six units in the coaching sequence.
Assistant coaching experience, recreation leagues, youth, interscholastic or intercollegiate athletics. Site must be approved in advance. (CR/NC grading only)

KIN 580 Instructional Strategies for Middle and High School Physical Education, Grades 6-12 (Units: 3)
Prerequisites: Restricted to upper division standing; KIN 250 with a grade of C or better; KIN 486 or KIN 487, and ENG 214; and GE completion of Area A and GE Area B4. Must be taken concurrently with KIN 581.
Strategies and teaching styles to establish the environment for learning motor skills. Long- and short-term planning, class management and communication techniques, evaluation procedures, and basic legal considerations.

KIN 581 Practicum in Middle and High School Physical Education (Unit: 1)
Prerequisites: Restricted to upper division standing; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4. Enrollment in teaching credential program. Must be taken concurrently with KIN 580.
Directed experiences in teaching and coaching youth and adolescents in activities common to middle and high school physical education programs. (Plus-minus letter grade only)

KIN 620 Advanced Practicum in Kinesiology (Units: 2)
Prerequisites: Restricted to upper division standing or consent of instructor and associate chair; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4.
Individually directed experiences as student trainers, varsity sport managers, or special leadership assistants in kinesiology. [SCL may be available]

KIN 621 Advanced Practicum in Kinesiology (Units: 2)
Prerequisites: Restricted to upper division standing or consent of instructor and associate chair; KIN 250 with a grade of C or better; and GE completion of Area A and GE Area B4
Individually directed experiences as student trainers, varsity sport managers, or special leadership assistants in kinesiology.

KIN 630 Internship in Adapted Physical Education (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GWAR requirement; KIN 250 with a grade of C or better; and two additional courses of the GE Segment I requirements; KIN 536, KIN 537, KIN 538. Recommended: KIN 538 (may be taken concurrently).
Directed experiences with exceptional individuals participating in PE programs in schools or other agencies; supervised development of individual plans. Includes weekly seminars.

KIN 636 Neuromotor Control Processes (Units: 3)
Prerequisites: Upper division standing or consent of instructor; completion of GE Area A and B4 requirements; completion of GWAR requirement; KIN 486 with a grade of C or better.
Neuromuscular processes underlying coordination and control of movement in the context of skill. (Plus-minus letter grade only)

KIN 680 Quantitative Analysis of Human Movement (Units: 3)
Prerequisites: Upper division standing or consent of instructor; KIN 485 with a grade of C or better.
Quantitative analytic tools and techniques applied to movement. Identification and measurement of bio-mechanical correlates as means of understanding coordination and movement strategies in the context of development, learning, performance, and rehabilitation. (Plus-minus letter grade only)

KIN 681 Muscle Mechanics (Units: 3)
Prerequisites for KIN 781: Graduate standing; KIN 480 and KIN 482 or equivalent; or consent of instructor.
Prerequisites for KIN 681: Restricted to upper division standing; KIN 480, KIN 482/KIN 483, and KIN 485.
Basic and applied physiological properties of skeletal muscles, tendons and ligaments, in the context of the physiological adaptations from disease, injury, and training. (Plus-minus letter grade only)
(KIN 781/KIN 681 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

KIN 683 Applied Exercise Physiology (Units: 3)
Prerequisites: Upper division standing or consent of instructor; BIOL 220 or BIOL 328, BIOL 212, BIOL 213, KIN 384GW, KIN 482, and KIN 483 with grades of C or better; and GE completion of Area A and GE Area B4.
Application of basic exercise physiology principles to the enhancement of energy capacity, work tolerance under environmental stress, metabolic basis for weight and body composition control, and aging/health-related aspects of exercise. Classwork, 2 units; laboratory, 1 unit.

KIN 685 Projects in the Teaching of Kinesiology (Units: 1-3)
Prerequisites: Upper division standing in kinesiology; approval of associate chair and supervising instructor; and a grade of B or better in a course in which student will be an instructional aide.
Teaching experiences in kinesiology through assigned instructional projects in a classroom or laboratory, and under the guidance of a faculty member. Training in pedagogical principles, including supervised classroom teaching activities. Units may not be applied towards fulfilling major requirements. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

KIN 690 Internship in Fitness/Wellness (Units: 3)
Prerequisites: Upper division standing or consent of instructor; KIN 384GW, KIN 482, KIN 483, and KIN 490; and GE completion of Area A and GE Area B4. Prior completion of KIN 555 is strongly recommended. Attendance at MANDATORY meeting at the end of the semester PRIOR to enrollment is required. Dates and times will be posted in the gymnasium.
Work as a trainee with professionals in the field of fitness/wellness, and extend learning experiences beyond those acquired on campus.
KIN 696 Kinesiology Community-Based Internship (Units: 3)
Prerequisites: Upper division standing or consent of instructor; KIN 384GW, KIN 482, KIN 483, KIN 485, KIN 486, and KIN 504. Enrollment preference given to graduating seniors.

Kinesiology community-based internship with youth in underserved communities coupled with a theory-practice project. (Plus-minus letter grade only) [CSL may be available]

KIN 697 Integrative Research Seminar (Units: 2)
Prerequisites: Upper division standing; or consent of instructor; ENG 214, KIN 384GW, KIN 482, KIN 483, KIN 485, KIN 486; and GE completion of Area A and GE Area B4. Must be taken concurrently with KIN 698. Enrollment preference given to graduating seniors.

Critical analysis and research design to explore a topic in exercise and movement science from multidisciplinary perspective. (Plus-minus letter grade only)

KIN 698 Senior Research Project (Unit: 1)
Prerequisites: Upper division standing or consent of instructor; KIN 384GW, KIN 482, KIN 483, KIN 485, and KIN 486; and GE completion of Area A and GE Area B4. Must be taken concurrently with KIN 697. Enrollment preference given to graduating seniors.

Conduct an appropriate research study in the student's area of concentration.

KIN 699 Independent Study (Units: 1-3)
Prerequisites: Upper division standing; overall GPA of 3.0 or above; consent of associate chair and supervising instructor.

Intensive study of a particular problem under the direction of an instructor of the department. May be repeated for a total of 6 units. [CSL may be available]

KIN 710 Research in Kinesiology (Units: 3)
Prerequisites: Graduate standing; undergraduate degree in kinesiology; a computer and a statistics course; or consent of instructor.

Descriptive, quasi-experimental, experimental, and qualitative research in kinesiology. (Plus-minus letter grade only)

KIN 715 Research Designs and Analysis (Units: 3)
Prerequisite: KIN 710 or consent of instructor.

Designs and statistics in descriptive, experimental, quasi-experimental, and qualitative research. (Plus-minus letter grade only)

KIN 730 Advanced Biomechanics (Units: 3)
Prerequisites: Graduate standing; undergraduate course in biomechanics or kinesiology; or consent of instructor.

Techniques for qualitative and quantitative analysis of movement as a mean of understanding movement processes.

KIN 733 Motor Learning (Units: 3)
Prerequisites: Graduate standing; KIN 486 or equivalent, or consent of instructor.

Factors influencing the development and acquisition of motor skill from a multidisciplinary perspective. Current theory and research in motor skill is discussed with implications for practice. (Plus-minus letter grade only)

KIN 734 Physical Activity Programs for Underserved Youth (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

A survey of the theory and practice of physical activity-based programs for underserved youth that emphasize life skills and active learning. Understanding the theoretical dynamics of physical activity on youth development and its potential for practical application. (Plus-minus letter grade only)

KIN 736 Advanced Neuromotor Control (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Advanced neuromotor control will cover the current theories and underlying neurophysiology of motor control and learning. (Plus-minus letter grade only)

KIN 737 Physical Dimensions of Aging (Units: 3)
Prerequisites: Restricted to upper division Kinesiology majors; KIN 250, BIOL 220 or BIOL 328, and BIOL 212, all with grades of C or better; and GE completion of Area A and GE Area B4.

Study of the physical aspects of aging from a developmental perspective in the adult years; the role of exercise/activity in the maintenance of functionality; hypotheses of physical decline, implications of age-related physical changes for daily living and activity patterns. (KIN 737/KIN 437 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

KIN 740 Advanced Exercise Metabolism (Units: 3)
Prerequisites: Graduate standing; KIN 482 or equivalent, or consent of instructor.

Historical and contemporary evaluation of energy metabolism, nutrition, and neuromuscular functions.

KIN 742 Exercise and Cardiovascular Dynamics (Units: 3)
Prerequisites: Graduate standing; KIN 482 or equivalent; or consent of instructor.

Understanding the regulation of the cardiovascular system as it relates to regulatory mechanisms for acute and chronic exercise. (Plus-minus letter grade only)

KIN 746 Clinical Exercise Physiology (Units: 3)
Prerequisites: Graduate Standing; KIN 482 or equivalent; or consent of instructor.

Examination of acute and chronic responses to exercise in patients with various cardiac, pulmonary, metabolic, and musculoskeletal diseases. Emphasis is placed on physical activity epidemiology, the pathophysiology of the disease process, assessment of disease severity, and current literature examining the effectiveness of physical activity/exercise training as a treatment strategy. (Plus-minus letter grade only)

KIN 750 Curriculum and Instruction I: Physical Education (Units: 3)
Prerequisite: Admission to credential program or consent of instructor.

Principles and practices for teaching physical education, including planning of content and instruction with consideration of student learning and state standards. (Plus-minus letter grade only)

Course Attributes:

- Teacher Credential Program Crs
KIN 751 Curriculum and Instruction II: Physical Education (Units: 3)
Prerequisites: KIN 750; must be taken concurrently with S ED 660 or S ED 751.

Principles and practices for teaching physical education to all learners, with additional emphases on assessment, reflective practice, and technology. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

KIN 755 Exercise Electrocardiography, Testing, and Prescription (Units: 3)
Prerequisites: Graduate standing; KIN 482 or equivalent; or consent of instructor.

In-depth theoretical background for exercise, electrocardiography, testing, and prescription for individuals and groups in clinical, corporate, community and occupational settings. (Plus-minus letter grade only)

KIN 763 Motivation and Performance (Units: 3)
Prerequisite: Graduate standing; KIN 504 or equivalent; or consent of instructor.

Psychological perspectives of human performance and research findings in the areas of sport and exercise psychology; awareness of literature focused on the psychological dimension. (Not open to students who have completed KIN 663.) (Plus-minus letter grade only)

KIN 766 Sociocultural Bases of Physical Activity (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Sociocultural factors underlying participation in physical activity, sport, and exercise. Implications for the practitioner.

KIN 781 Muscle Mechanics (Units: 3)
Prerequisites for KIN 781: Graduate standing; KIN 480 and KIN 482 or equivalent; or consent of instructor.
Prerequisites for KIN 681: Restricted to upper division standing; KIN 480, KIN 482/KIN 483, and KIN 485.

Basic and applied physiological properties of skeletal muscles, tendons and ligaments, in the context of the physiological adaptations from disuse, injury, and training. (Plus-minus letter grade only)
(KIN 781/KIN 681 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

KIN 795 Seminar in Kinesiology (Units: 3)
Prerequisites: Completion of 15 advancement to candidacy (ATC) units; and completion of KIN 710 and KIN 715.

Interdisciplinary seminar on relevant kinesiology issues, areas of interest, problems, and future directions. Involves extensive analysis of recent and significant research. (Plus-minus letter grade only)

KIN 895 Master's Project in Kinesiology (Units: 3)
Prerequisite: Completion of core and concentration requirements; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Development of a research question on a topic approved by faculty with literature review, methodology and statistical analysis. Includes proposal and oral presentation. Advancement to Candidacy and Proposal for Culminating Experience Requirement must be approved by Graduate Studies before registration. (CR/NC grading only)

KIN 896 Directed Reading in Kinesiology (Units: 3)
Prerequisites: Completion of 21 units on the ATC; consent of adviser and instructor.

Integrating information in movement and exercise science or a significant issue. May be repeated once for a total of 6 units.

KIN 897 Independent Research in Kinesiology (Units: 3)
Prerequisites: KIN 710, KIN 715 or equivalent; twelve graduate units completed in M.A. program; and consent of graduate adviser.

Independent, original research investigation supervised by a graduate adviser. For students who selected the thesis culminating experience. (CR/NC grading only)

KIN 898 Master's Thesis (Units: 3)
Prerequisites: Classified graduate status for the Master of Arts; KIN 897; and consent of graduate major adviser and instructor; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

KIN 899 Independent Study (Units: 1-3)
Prerequisites: Graduate standing with demonstrated ability to do independent work and consent of adviser and supervising instructor.

Independent study or research is planned, developed, and completed under the direction of a faculty member. May be repeated for a total of six units. (CR/NC grading only)
Labor Studies (LABR)

LABR 250 Introduction to the Study of Labor (Units: 3)
The study of labor in the United States. The nature of work, the
development and characteristics of the workforce, the history and
present nature of labor organizations, and patterns of labor-management
relationships.
Course Attributes:
• D1: Social Sciences
• Global Perspectives

LABR 251 Know Your Work Rights (Units: 3)
Hands-on approach to understanding basic statutory protections
covering California workers, including wage and hour; workplace
safety, health, and sanitation; workers’ compensation; discrimination;
union activity; pregnancy and parental leave; discipline and discharge;
unemployment and disability insurance; social security, health, and
pension benefits.
Course Attributes:
• D1: Social Sciences
• Social Justice

LABR 300 Researching Labor Issues (Units: 3)
Prerequisite: LABR 250.
Methods of research and analysis used in understanding labor issues.
Case studies and contemporary issues selected from such areas as
collective bargaining, arbitration and mediation, legislation, regulative
and administrative law, employment discrimination and union governance.

LABR 343 Women and Work (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Position and roles of women in the productive activities of society:
paid and unpaid. Patterns of household and workplace employment,
discrimination in pay and working conditions, relevant laws, explanations
for the evolution of patterns.
(This course is offered as LABR 343 and ANTH 343. Students may not
repeat the course under an alternate prefix.)

LABR 394 Political Theories of Work, Labor and Free Time (Units: 4)
Prerequisite: Upper division standing
Examination of the tension between the desire to work and to be free
from work looking at texts from liberalism, Marxism, feminism and critical
theory. Questions to explore include the following: Has this tension
always existed and how might it be overcome? Where and when did
people begin to prioritize paid work over all else? What constitutes "work"
and who decides? Is work different than labor?
(This course is offered as PLSI 394 and LABR 394. Students may not
repeat the course under an alternate prefix.)

LABR 473 Unfree Labor in Early America (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent
of instructor.
An examination and comparison of various forms of unfree labor in
early America from the colonial period to the Civil War, tracing change
time and investigating the relationship among economic systems,
ideology, and social relations.
(This course is offered as HIST 473, ETHS 473, and LABR 473. Students
may not repeat the course under an alternate prefix.)

LABR 474 History of Labor in the United States (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent
of instructor.
Development of the workforce and organized labor in the U.S. Social and
economic characteristics of work and the workforce; characteristics of
labors organizations at different times.
(This course is offered as HIST 474, ECON 474, and LABR 474. Students
may not repeat the course under an alternate prefix.)

LABR 500 Labor and Government (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of labor-government relations at local, state, and national
levels. Consideration of labor’s political action in relation to legislative,
executive, and judicial branches of government and in the electoral
process; examination of government’s responses as they protect or
restrict labor’s interest.
(This course is offered as LABR 500 and PLSI 500. Students may not
repeat the course under an alternate prefix.)

LABR 510 Labor Economics (Units: 3)
Prerequisite: ECON 101 or consent of instructor.
Analysis of the operation of the labor market. Theories of wages,
unemployment, unions and income distribution.
(This course is offered as ECON 510 and LABR 510. Students may not
repeat the course under an alternate prefix.)

LABR 511 Collective Bargaining (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Collective bargaining, legislation; case studies in labor law.
(This course is offered as ECON 511 and LABR 511. Students may not
repeat the course under an alternate prefix.)

LABR 525 Diversity in the Workplace (Units: 3)
Prerequisite: Upper division standing.
An overview of workplace diversity and strategies to utilize it positively.
Theoretical debates and issues related to race, ethnic origin, gender,
sexual orientation, class, age, and disability. Ways in which individuals
and organizations can maximize benefits through respecting and working
with diversity.
(This course is offered as LABR 525 and ANTH 525. Students may not
repeat the course under an alternate prefix.)

LABR 550 International Labor (Units: 3)
Prerequisites: Upper division standing; LABR 250 or consent of instructor.
Analysis of labor's role in the developed economies, East and West, and
in developing areas. Theoretical perspectives on international labor.
Migration and population as they relate to labor. Impact of trade treaties
on labor markets.
(This course is offered as LABR 550 and IR 450. Students may not repeat
the course under an alternate prefix.)

LABR 552 Comparative Employment Relations (Units: 3)
Prerequisite: Upper division standing.
Introduction to the concept of the employment relationship, the main
"models" and their key actors; diversity at work to international labor
rights and how they are approached and practiced in different countries.
(This course is offered as LABR 552 and SOC 552. Students may not
repeat the course under an alternate prefix.)
LABR 553 Labor Standards and Corporate Social Responsibility (Units: 3)
Prerequisite: Upper division standing.
Introduction to an overview of recent academic debates on Corporate Social Responsibility, International Labor Standards and "decent work." Codes of conduct, monitoring, and certification/labeling/ transparency. (This course is offered as LABR 553 and SOC 553. Students may not repeat the course under an alternate prefix.)

LABR 554 Themes in Comparative Employment Relations (Units: 3)
Prerequisite: Upper division standing.
Introduction to the main "models" that have been used in comparative analysis of national systems of employment relations; the Anglo-Saxon, Japanese, and European social models; discussion of the appropriateness of these models in understanding transforming economies. (This course is offered as LABR 554 and SOC 554. Students may not repeat the course under an alternate prefix.)

LABR 555 Labor Rights in the Global Economy (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Key themes concerning labor rights in the global economy; focus on core labor rights identified by the UN: freedom of association, freedom from child labor; freedom from coerced labor, and freedom from discrimination. (This course is offered as LABR 555 and SOC 555. Students may not repeat the course under an alternate prefix.)

LABR 570 Urban Health Policy (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Political economy of urban health system. Critical review of urban health policy; analysis of alternatives. Politics of health care reform. Particular needs of women and communities of color. (This course is offered as USP 570, LABR 570, and PLSI 570. Students may not repeat the course under an alternate prefix.)

LABR 650 Labor Law: An Introduction and Overview (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
An overview of the history and development of the National Labor Relations Act, public sector and farm labor law, Taft-Hartley, Landrum Griffin Act, and benefit legislation.

LABR 695 Union Internship (Units: 1-3)
Prerequisite: LABR 250 or consent of instructor.
Internship with Bay Area labor organization. May involve organizing, research, or participation in special projects. May be repeated for a total of 6 units. (CR/NC grading only)

LABR 699 Independent Study (Units: 1-3)
Prerequisites: Consent of instructor, major adviser, and department chair.
Supervised study of a particular problem selected by the student.
Latin (LATN)

LATN 101 Elementary Latin (Units: 3)
Latin language and grammar with emphasis on reading classical prose. Groundwork for master works of Latin poetry and prose.
Course Attributes:
- C2: Humanities
- Global Perspectives

LATN 202 Intermediate Latin (Units: 3)
Prerequisite: LATN 101 or equivalent.
Understanding, reading, writing at the intermediate level. Reading selections from prose and poetry.

LATN 301 Introduction to Latin Prose and Poetry (Units: 3)
Prerequisite: Successful completion of LATN 202 or consent of instructor.
Reading, translation and literary analysis of Latin passages, alongside grammar and vocabulary review.

LATN 430 Roman Satire (Units: 3)
Prerequisite for LATN 730: Intermediate Latin or equivalent.
Prerequisite for LATN 430: LATN 202 or equivalent.
Translation and analysis from the satires of Horace, Juvenal, Persius, and Petronius; Satiricon and epigrams of Martial; Roman satire and critical approaches.
(LATN 730/LATN 430 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 436 Roman Novel (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman novels. Discussion of historical context.
(LATN 736/LATN 436 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 440 Roman Philosophy (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman philosophical works. Discussion of historical context.
(LATN 740/LATN 440 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 441 Roman Oratory and Rhetoric (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman speeches and works of rhetorical theory. Discussion of historical context.
(LATN 741/LATN 441 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 445 Latin Epic I (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Latin epic poetry, with a focus on Vergil’s Aeneid 7-12 and/or Ovid’s Metamorphoses. Discussion of poetic models and historical context.
(LATN 745/LATN 445 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 446 Latin Epic II (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Latin epic poetry with a focus on Vergil’s Aeneid 1-6. Discussion of poetic models and historical context.
(LATN 746/LATN 446 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 450 Roman Drama (Units: 3)
Prerequisite for LATN 750: Intermediate Latin or equivalent.
Prerequisite for LATN 450: LATN 202 or equivalent.
Translation and analysis from the works of Plautus, Terence, Seneca; performance of ancient comedy, tragedy.
(LATN 750/LATN 450 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 455 Latin Elegy and Lyric I (Units: 3)
Prerequisites for LATN 755: Graduate standing; reading knowledge of Latin.
Prerequisites for LATN 455: Upper division standing and a GPA of at least 3.0; or consent of instructor.
Translation and analysis of Latin lyric and elegiac poetry, with a focus on Catullus, Propertius, Tibullus, and Horace. Discussion of historical context.
(LATN 755/LATN 455 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 456 Latin Lyric and Elegy II (Units: 3)
Prerequisites for LATN 756: Graduate standing; reading knowledge of Latin; or consent of instructor.
Prerequisites for LATN 456: Upper division standing or consent of instructor; reading knowledge of Latin.
Translation and analysis of Latin lyric and elegiac poetry, with a focus on Ovid, Martial, and Statius. Discussion of historical context.
(LATN 756/LATN 456 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 460 Roman Historiography I (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman historiographical texts, with a focus on authors from the republican period and early principate. Discussion of literary models and historical context.
(LATN 760/LATN 460 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 461 Roman Historiography II (Units: 3)
Prerequisites for LATN 761: Graduate standing or consent of instructor; reading knowledge of Latin.
Prerequisites for LATN 461: Upper division standing or consent of instructor; reading knowledge of Latin.
Translation and analysis of Roman historiographical texts, with a focus on authors from the imperial period. Discussion of literary models and historical context.
(LATN 761/LATN 461 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
Projects requiring critical study and analysis of advanced material adapted to individual needs and interests. May be repeated.
LATN 730 Roman Satire (Units: 3)
Prerequisite for LATN 730: Intermediate Latin or equivalent.
Prerequisite for LATN 430: LATN 202 or equivalent.
Translation and analysis from the satires of Horace, Juvenal, Persius, and Petronius; Satiricon and epigrams of Martial; Roman satire and critical approaches.
(LATN 730/LATN 430 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 735 Roman Epistemology (Units: 3)
Prerequisite: Reading knowledge of Latin.
Advanced approaches to translation and analysis of Roman letters. Discussion of historical context.

LATN 736 Roman Novel (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman novels. Discussion of historical context.
(LATN 736/LATN 436 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 740 Roman Philosophy (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman philosophical works. Discussion of historical context.
(LATN 740/LATN 440 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 741 Roman Oratory and Rhetoric (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman speeches and works of rhetorical theory. Discussion of historical context.
(LATN 741/LATN 441 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 745 Latin Epic I (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Latin epic poetry, with a focus on Vergil's Eclogues, Georgics, and/or Aeneid 1-6. Discussion of poetic models and historical context.
(LATN 745/LATN 445 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 746 Latin Epic II (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Latin epic poetry with a focus on Vergil's Aeneid 7-12 and/or Ovid's Metamorphoses. Discussion of poetic models and historical context.
(LATN 746/LATN 446 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 750 Roman Drama (Units: 3)
Prerequisite for LATN 750: Intermediate Latin or equivalent.
Prerequisite for LATN 450: LATN 202 or equivalent.
Translation and analysis from the works of Plautus, Terence, Seneca; performance of ancient comedy, tragedy.
(LATN 750/LATN 450 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 755 Latin Elegy and Lyric I (Units: 3)
Prerequisites for LATN 755: Graduate standing; reading knowledge of Latin.
Prerequisites for LATN 455: Upper division standing and a GPA of at least 3.0, or consent of instructor.
Translation and analysis of Latin lyric and elegiac poetry, with a focus on Catullus, Propertius, Tibullus, and Horace. Discussion of historical context.
(LATN 755/LATN 455 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 756 Latin Lyric and Elegy II (Units: 3)
Prerequisites for LATN 756: Graduate standing; reading knowledge of Latin; or consent of instructor.
Prerequisites for LATN 456: Upper division standing or consent of instructor; reading knowledge of Latin.
Translation and analysis of Latin lyric and elegiac poetry, with a focus on Ovid, Martial, and Statius. Discussion of historical context.
(LATN 756/LATN 456 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 760 Roman Historiography I (Units: 3)
Prerequisite: Reading knowledge of Latin.
Translation and analysis of Roman historiographical texts, with a focus on authors from the republican period and early principate. Discussion of literary models and historical context.
(LATN 760/LATN 460 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 761 Roman Historiography II (Units: 3)
Prerequisites for LATN 761: Graduate standing or consent of instructor; reading knowledge of Latin.
Prerequisites for LATN 461: Upper division standing or consent of instructor; reading knowledge of Latin.
Translation and analysis of Roman historiographical texts, with a focus on authors from the imperial period. Discussion of literary models and historical context.
(LATN 761/LATN 461 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

LATN 899 Independent Study (Units: 1-3)
Prerequisites: Advanced reading knowledge of Latin and consent of supervising faculty member.
Advanced reading of an ancient Latin author or authors, under the supervision of a member of the Classics faculty. Enrollment by petition. May be repeated for a total of 6 units.
Latina/o Studies (LTNS)

LTNS 110 Critical Thinking in Latina/o Studies (Units: 3)
Developing basic skills involved in understanding, criticizing, and constructing arguments by using materials reflective of experience of Raza and the Third World culture in the U.S. (Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
- A3: Critical Thinking
- Am. Ethnic & Racial Minorities
- Social Justice

LTNS 205 Cyber Raza: Culture and Community On-line (Units: 3)
The emerging interrelationship of culture, community, and the Internet with critical analysis of key information age issues. Internet research skills, a basic understanding of on-line technology, web development skills, and critical understanding of the role of technology for Raza. [CSL may be available]

LTNS 210 Latina/Latino Health Care Perspectives (Units: 3)
Diseases and health conditions that are prevalent in underserved populations; socio-economic, political, racial, cultural, and environmental factors that influence conditions in Raza communities in the U.S. [CSL may be available]

Course Attributes:
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Global Perspectives
- Social Justice

LTNS 211 Latina/o Families Narrative (Units: 3)
The psychological structure of the family; psychodynamics of family relationships in light of particular subcultural influences characteristic of La Raza ethnic background. Sex-role delineations.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

LTNS 215 Introduction to Latina/o Studies (Units: 3)
Philosophy, methodology, and structure of Raza studies. Relations between the Raza community and American institutions of higher education. [CSL may be available]

LTNS 222 Latina/o Art History (Units: 3)
Conceptual and technical aspects of the visual arts movements in Latin America from 1900-present and its developmental relationship to values, cultural identity, and artistic expression of Raza communities in the U.S. [CSL may be available] [Formerly LTNS 320]

Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives

LTNS 225 Survey of Latina/o Visual Images (Units: 3)
Survey of Latina/o images in television, film, advertising, magazines, murals, and online media. Analysis of how visual culture reproduces ideology and/or challenges power structures.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Social Justice

LTNS 230 Introduction to Latina/o Literature (Units: 3)
Background in Chicano/Latino literature. Readings from all the major Latino groups; emphasis on culture, politics, and gender as seen through fiction.

Course Attributes:
- E1: Lifelong Learning Develop
- C3: Humanities: Literature
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

LTNS 265 Topics in Latina/o History (Units: 3)
Introduction to the history of Latinos/as in the U.S. Analysis of the social, political, and economic conditions that give rise to multiple migrations. [CSL may be available]

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

LTNS 270 Latina/o Arts and Humanities (Units: 3)
Latin American and southwestern cultural experience. Various ethnic groups in Latin America and their contributions to the values, culture, oral history, and traditions of La Raza in the U.S.

LTNS 276 Latina/o, U.S. Government, and Constitutional Ideals (Units: 3)
Basic governmental/political institutions and underlying socio-political ideals. Raza impact on legal-constitutional America and countervailing impact of political-legal structures imposed on Raza. [CSL may be available]

Course Attributes:
- U.S. Govt CA State Local Govt
- D3: Social Sciences: US CA Gov
- Am. Ethnic & Racial Minorities

LTNS 278 History of Latinos in the U.S. (Units: 3)
Examination of the social-cultural, economic, and political foundations of Latino history from the Spanish colonial period to the present. (This course is offered as LTNS 278 and HIST 278. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Social Justice

LTNS 280 Transculturation and Latina/o Communities (Units: 3)
Socio-psychological impact of the acculturation/assimilation process on the Latino in the U.S.
LTNS 286 Policy Making and Latinos (Units: 3)
Prerequisite: Satisfactory completion of U.S. Government requirement (LTNS 276 or equivalent), or consent of instructor.
Analysis of the policy making process, the goals of policy, and the ways to influence policy. Examination of Latino political muscle, the barriers to representation, and critical issues confronting the Latino population in the United States. [Formerly LTNS 525]

LTNS 305 Latina/o Studies Creative Writing Workshop (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Instruction and practice in all forms of writing with an emphasis on bilingual creations. Taught bilingually (Spanish/English).
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Am. Ethnic & Racial Minorities
  • Global Perspectives

LTNS 315 Latina/os in California (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Overview of the Latina/o experience in California from the Mexican-American War to contemporary times. [CSL may be available]
Course Attributes:
  • Am. Ethnic & Racial Minorities
  • Social Justice

LTNS 355 Black-Indians in the Americas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examines factors impacting on multiracial identity formation among Native communities throughout the Americas with a specific focus on Black-Indians; explores concepts and theories regarding blood quantum, sovereignty, and land rights, and the social, legal, and political understanding of mixed-race Native Americans. (This course is offered as AIS 350, AFRS 350, and LTNS 355. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-D: Social Sciences
  • Am. Ethnic & Racial Minorities

LTNS 380 Afro/Latina/o Diasporas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the history and experiences of Afro/Latina/o diasporic communities in the U.S. and history of African peoples in Latin America and the Caribbean.
Course Attributes:
  • UD-D: Social Sciences
  • Am. Ethnic & Racial Minorities
  • Global Perspectives

LTNS 409 Latina/o Cinema (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of Latino history using Latino themed and produced film. The power of stereotypes, global dissemination of film and examples of the ways in which Latin American and U.S. Latina/o filmmakers respond to stereotypes by creating cinematic counter-discourses. (This course is offered as LTNS 409 and CINE 409. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Am. Ethnic & Racial Minorities
  • Global Perspectives
  • Social Justice

LTNS 410 Seminar on Gender and Latinas/os (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Political, social, economic, and cultural influences affecting the Raza woman in the U.S. and Latin America. [CSL may be available]

LTNS 415 Economic Progress of Latinos in the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Critical analysis of the changing political and economic condition of the Mexican-American people. Historical changes in land tenure, barrioization, racialization of labor impact of current political economy on an increasingly diverse Raza community. [CSL may be available]

LTNS 425 Popular and Traditional Music of the Latina(o) Diaspora (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Music and culture pertained to Latino communities in the U.S. and Latin American music genres that have influence in the U.S.; diverse musical styles and cultures and how they shape music. [CSL may be available]
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Am. Ethnic & Racial Minorities
  • Global Perspectives

LTNS 430 Race, Crime, and Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Ethnic studies methods and cross-cultural perspectives examine the rise of institutions of law enforcement, juvenile and criminal justice, case studies, life histories, community service learning internships. [CSL may be available] (This course is offered as LTNS 430 and C J 435. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  • UD-D: Social Sciences
  • Social Justice

LTNS 435 Oral History Methods: Theory and Practice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Latin American and Southwestern U.S. popular culture. Ethnic groups in Latin America and their contributions to the oral history and traditions of Raza in the U.S. [CSL may be available]
LTNS 440 Caribbean Cultures and Spirituality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Cultural and religious traditions of Caribbean peoples. Historical analysis of indigenous, European, and African influences in Caribbean cultural expressions from Cuba to Brazil. Contemporary cultures, inter-ethnic relations, spirituality, religious systems, and artistic expressions.

LTNS 445 Gendered Borders: Latinas and Globalization (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Gender and globalization: moving society toward borderless economies with barricaded borders. Latinas struggle for fair wages, self-determination, and healthy families. Women living in U.S. and Latin America adjusting to transnational reality. (This course is offered as LTNS 445 and WGS 445. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

LTNS 450 Indigenismo: Indigenous Cultures of the Americas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Culture and traditions of indigenous peoples of Latin America. Contemporary society, traditional medical systems, healing methodologies, religion, sorcery, magic, etc. and its relationship to La Raza in the U.S.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Environmental Sustainability
• Global Perspectives

LTNS 455 Resistance Literature of the Americas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
History of the literature of Resistance. Theories of deconstruction, post-modernism, and gender. Creative applications used to resist colonialism, imperialism, patriarchy, sexual taboos, and literary canons. Difference between Resistance literature and propaganda.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

LTNS 460 Central Americans of the U.S.: History and Heritage (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Developmental relationship between U.S. communities of Central American origin and historical, socio-economic, and cultural factors of contemporary Central America; nationalistic movements, migrations to U.S., economic dependence, social change, art, and society.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

LTNS 465 Mexican-Americans: History and Heritage (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the history of Mexican-Americans (Chicanos) in the U.S.

LTNS 467 Caribbean in the U.S.: History and Heritage (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the history of the Spanish Caribbeans in the U.S.
Course Attributes:
• Global Perspectives
• Social Justice

LTNS 470 Latina/o Immigration to the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Theoretical, historical, socioeconomic, legal, and political issues of Latin American immigration patterns to the U.S. Socioeconomic and political impact of documented and undocumented immigration to Raza communities and mainstream U.S. society. [CSL may be available]
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

LTNS 475 Aztec Philosophy (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Philosophical foundations of the Aztec world view; relationship between the deities and humans; view of the relationship between body, mind, and spirit.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
LTNS 485 Latina/o Youth, Crime, and Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of Latino juvenile justice, the myths and realities, and the
overincarceration of Latino youth: its sources, costs, and consequences;
and impact on individuals, families, and communities. Latino experiences
with schooling, police, gangs, drugs, "juvie," and caseworkers are covered.
[CSL may be available]
(This course is offered as LTNS 485 and C J 485. Students may not repeat
the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Social Justice

LTNS 487 Mexican Migrations: A Social History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the historical and contemporary social and legal effects
of immigration flows and deportations by focusing on the development
of the U.S.-Mexico border, U.S. immigration policies, gendered migrations,
and U.S. definitions of belonging as well as exclusion in relation to
Mexican immigration communities.
(This course is offered as SOC 487 and LTNS 487. Students may not
repeat the course under an alternate prefix.)

LTNS 490 Latina/o Teatro Workshop (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Works by Raza playwrights. Raza theater, its development and how it
relates to the cultural aspects of Raza people. May be repeated for a total
of 6 units.

LTNS 500 Latina/o Community Mental Health (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Mental health services throughout the Bay Area: determine whether these
services are relevant to the Raza community. How the Raza student
views him/herself and relationships with others in and outside the
culture.

LTNS 501 Latin America: The National Period (Units: 3)
Prerequisites: Upper division standing or consent of instructor; ENG 214
or equivalent.
Latin America since independence (c. 1825). Histories of Latin American
peoples: culture, race relations, women, political oppression and
resistance, the economy, and development.
(This course is offered as HIST 501, ANTH 501, and LTNS 501. Students
may not repeat the course under an alternate prefix.)

LTNS 505 Gender, Sexuality, and Latino Communities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to the social organization of gender and sexuality in Latino
communities; exploration of ways gender and sexuality are given specific
cultural meaning among the pan-Latino population.
(This course is offered as LTNS 505 and WGS 505. Students may not
repeat the course under an alternate prefix.)

LTNS 520 North and South American Cultural Expression (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Values, ideas, and creative styles of North and South American cultures
through comparisons of literary artistic and architectural creations from
each culture.
(This course is offered as HUM 520 and LTNS 520. Students may not
repeat the course under an alternate prefix.)

LTNS 530 Latina/os and the Media (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of mass media representation of and marketing to Latinas/
os. Development of media literacy skills to think critically about Latina/
/o racialization in U.S. media. Analysis of Latina/o oriented media that
purports to offer an alternative to mass media.
Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Social Justice

LTNS 533 History of Women in Latin America (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent
of instructor.
History of the changing roles of women in Latin America from the colonial
period to the present.
(This course is offered as HIST 535, WGS 535, and LTNS 533. Students
may not repeat the course under an alternate prefix.)

LTNS 536 Latina/o Journalism (Units: 3)
Prerequisite: LTNS 530.
Overview of U.S. Latina/o journalism from the mid-1800s to the present
day, provides insight into the ways in which Latina/os have utilized
journalism as a way to merge activism and community formation. [CSL
may be available]
(This course is offered as LTNS 536 and JOUR 536. Students may not
repeat the course under an alternate prefix.)

LTNS 560 Contemporary Latina/o Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Literature produced by the people of Raza both in the U.S. and in Latin
America during this century. Writings produced since 1950; ways in which
the writers of Raza are expressing and furthering the movement of their
people.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice
LTNS 580 Educational Equity (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Is education the great equalizer? Educational equity and policy issues, including institutional racism, school finance, recruitment/retention of under-represented students, language. [CSL may be available]
(This course is offered as LTNS 580, SOC 580, and RRS 580. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

LTNS 640 Sociology of the Latino Experience (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
A comprehensive introduction to sociological perspectives on the Latino/Latina experience in the United States. Historical and structural in approach.
(This course is offered as LTNS 640 and SOC 640. Students may not repeat the course under an alternate prefix.)

LTNS 660 Latina/o Politics (Units: 3)
Prerequisite: LTNS 276 or consent of instructor.
Introduction to Latino politics focusing on equity, labor, immigrant rights, and voter-based movement. Review theory, history, legislation, multiple agency, and collective action while covering central issues of politics and power for the growing Raza population of California and the U.S. [CSL may be available]
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

LTNS 670 Mexican Politics and Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Peoples, politics, and cultures of Mexico; implications of rapid change in Mexico for California and the U.S. [CSL may be available]
(This course is offered as LTNS 670 and PLSI 408. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

LTNS 679 Central American Literature: Roots to the Present (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Central American literature, from earliest indigenous manuscripts, such as the Popol Vuh, to contemporary writers like Sergio Ramirez and Claribel Alegría. Writers and poets from 1960 to the present.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

LTNS 680 Latina/o Community Organizing (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Raza and community organizing; mobilization and action toward the resolution of community problems; elements and techniques of organizing; development of leadership and community resources; acquisition and direction of power; analysis of the existing organizations and their definitions of community priorities and goals. [CSL may be available]

LTNS 685 Projects in the Teaching of Latina/o Studies (Units: 1-4)
Prerequisites: Upper division standing and consent of instructor.
A cademic service learning practicum/internship experience as an undergraduate instructional aide. Participation in the teaching of a regular instructionally-related class. Limited to undergraduate students only. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

LTNS 690 Community Fieldwork in Latina/o Studies (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Assignment to off-campus community organizations in consultation with a faculty adviser. Development of knowledge, experience, and training in community organizations. To accompany or follow LTNS 680. May be repeated for a total of 6 units. [CSL may be available]

LTNS 692 Cuba: Health, Education, and Culture (Units: 3)
Prerequisites: Written application, interview, level of participation.
Offered during the fall semester and culminates in a January study tour of Cuba. Combines community service learning with an international experience. [CSL may be available]

LTNS 693 Cuba: Community Service Learning (Units: 3)
Prerequisite: LTNS 692 (may be taken concurrently) or consent of instructor.
Study of contemporary U.S.-Cuba issues through readings, discussions, films, speakers, and community service learning. Focus on organizing the itinerary for the Cuba travel study and service learning with community agencies. [CSL may be available]

LTNS 694 Community Service Learning (Units: 1-3)
Prerequisites: Upper division standing or consent of instructor; must be taken concurrently with any LTNS course supporting community service learning.
Community service learning activity course. May be repeated for a total of 6 units. [CSL may be available]

LTNS 699 Independent Study (Units: 1-3)
Prerequisites: Approval of department and consent of instructor.
An intensive study of a particular problem in Latina/o studies under the direction of a member of the department. LTNS 699 is repeatable for a maximum of 6 units.

LTNS 707 Seminar in Latina/o Studies (Units: 3)
Prerequisite: Consent of instructor.
Introduction to the scholarly literature in Latina/Latino Studies. While interdisciplinary and multidisciplinary in scope, it is largely anchored in the social sciences and history.
Liberal & Creative Arts (LCA)

LCA 101 First Year Experience in Creative Arts (Units: 3)
Exploration of the creative arts’ role in culture. Focus on integration of creative thinking modalities with critical thinking skills to enhance artistic scope, study efficiency, and academic performance. Introduction to campus resources for learning and for personal growth. (Plus-minus ABC/NC grading only) [Formerly CA 101]

LCA 380 Arts and Social Change (Units: 3)
Prerequisite: ENG 114 or equivalent.

Arts expression in media, performance, and visual arts as voices of cultural diversity, enhancement, and change. [Formerly CA 380]

LCA 499 Culminating Experience Continuous Enrollment (Unit: 0)
[Formerly CA 499]

LCA 514 Preparation for Graduate Writing (Units: 3)
Prerequisites: Graduate standing and must be recommended by student’s graduate program or consent of instructor.

Designed for students who need to improve their writing proficiency in preparation for graduate-level work. May not be used to meet master’s degree ATC requirements. (CR/NC grading only) [Formerly CA 514]

LCA 576 Entertainment Industry Media Internship Program (Units: 1-3)
Prerequisite: Introductory media course or consent of instructor. CSU students enrolled in the CSU Entertainment Industry Initiative Media Internship Program (EI/MIP).

Internship experience in professional entertainment industry organization designed to serve students who do not have an internship program available in their home department. May be repeated for 9 units. (This course is delivered online only.) [Formerly CA 576]

LCA 725 Academic Advising in the Liberal and Creative Arts (Units: 3)
Prerequisite: Graduate standing or senior with consent of instructor.

Academic advising in the liberal and creative arts with attention to theories, current trends, and best practices. Advising internship in the LCA Student Achievement & Resource Center.
Liberal Studies (LS)

LS 300GW Perspectives on Liberal Studies - GWAR (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of C- or better. Enrollment priority for Liberal Studies majors.

Basic preparation for interdisciplinary study. Draws on language arts, mathematics, science, social sciences, humanities, and creative arts to prepare students for advanced work in Liberal Studies and for careers requiring breadth and depth of knowledge. (ABC/NC grading only) [CSL may be available]

Course Attributes:
- Graduation Writing Assessment

LS 304 Making Comics (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to the hands-on making of comics. Focus on in-class exercises and small projects in making comics alongside analysis of comics. Promotes understanding of how to communicate in comics and discover working methods that best work for them.

LS 309 Physical Sciences for Elementary School Teachers (Units: 3)
Prerequisite: Completion of the Physical Sciences GE requirement.

Designed for prospective elementary/middle school (K-8) teachers. Understanding through inquiry the structure and property of matter and principles of motion and energy. Classwork, 2 units; laboratory, 1 unit.

LS 310 Physics for Future Elementary School Teachers (Units: 3)
Prerequisite: Completion of lower-division physical science GE or consent of instructor.

Designed for prospective elementary/middle school (K-8) teachers. Understanding through inquiry-based instruction the principles of motion and energy in compliance with Next Generation Science Standards and Common Core.

LS 400 Social Sciences Core I (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

An interdisciplinary approach to the scientific study of human social behavior. Exploration of the similarities and differences between the social science disciplines of anthropology, psychology, and sociology with respect to their subject matter, concepts, models, and research approaches. [Formerly SS 300]

LS 401 Social Sciences Core II (Units: 3)
Prerequisite: Upper division standing.

An interdisciplinary social science approach to the disciplines of history, geography, economics and political science with regard to their subject matter, concepts, models, and research approaches. Considers the prospects and problems of interdisciplinary vs. disciplinary social analysis. [Formerly SS 301]

Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability
- Global Perspectives

LS 403 Performance and Pedagogy of the Oppressed for Educators (Units: 3)
Prerequisite: CWL 214 or ENG 214 or equivalent.

Examination of theories of Augusto Boal and Paulo Freire and their application for educators and community activists. (This course is offered as LS 403 and COMM 557. Students may not repeat the course under an alternate prefix.)

LS 426 Thought and Image: Creative Arts (Units: 3)
Prerequisite: ENG 114 or equivalent.

Works in the creative arts and humanities studied in terms of the unique ways the meanings, values, and forms reflect their cultures of origin. Works from at least two global cultures will be included. [Formerly CA 426]

LS 430 Future of the Forests (Units: 3)
Prerequisites: ENG 214 or equivalent; one course in college-level biology.

Ecological and social dimensions of Western-Hemisphere forests; forest ecology and science; socio-political relations of industries to forest decline and with minority forest dwellers and laborers; sustainability and the future role of forests.

Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability
- Global Perspectives

LS 460 Childhood, Nature, and Society (Units: 3)
Prerequisites: Upper division standing and ENG 214 or equivalent.

Exploration of the relationship between childhood and nature in pre- through-post industrial societies using theory, research and methods from the social sciences. [CSL may be available] [Formerly S S 460]

LS 681 Community Service Learning in the Schools (Units: 3)
Prerequisite: Upper division standing.

Projects in history and social studies learning at the K-12 level. Meets state early field experience requirement for multiple and single subject credential program admissions. May be repeated for a total of 6 units. [CSL may be available]

(This course is offered as LS 681 and HIST 681. Students may not repeat the course under an alternate prefix.)

LS 690 Liberal Studies Senior Seminar (Units: 3)
Prerequisites: Senior standing; LS 300GW.

Interdisciplinary theory, research, and practice. Examination of key questions and complex problems from multiple perspectives through preparation of a substantial piece of work.

LS 699 Independent Study (Units: 1-3)
Prerequisites: Upper liberal studies major; and consent of instructor;

Independent inquiry into a specific interdisciplinary issue or problem formulated by the student and approved and supervised by a member of the Liberal Studies faculty.
Management (MGMT)

MGMT 354 Starting a Small Business (Units: 3)
Prerequisite: ENG 214 or equivalent; open to business and non-business major.

The process of starting and managing a successful small business. Students participate in a team project which takes them through an actual startup. (Plus-minus letter grade only)

MGMT 405 Introduction to Management and Organizational Behavior (Units: 3)
Prerequisite: Restricted to upper division standing in Business, Family and Consumer Studies, Apparel Design and Merchandising, Design and Industry, Gerontology, Hospitality Tourism Management, and Recreation, Parks, and Tourism majors.

Management and organizational behavior within domestic and international organizations. Functions of planning, organizing, directing, and controlling; managerial process of decision-making and communication; individual motivation and group dynamics within the organizational setting.

MGMT 407 Economics for Managers (Units: 3)
Prerequisites: Upper division standing; grades of C- or better in DS 110/ MATH 110, ECON 101, and ECON 102.

Macroeconomic and microeconomic environments within which business organizations operate. Applications of economic theory to business operations and management decisions on a local, national and multinational basis.

MGMT 430 Introduction to Entrepreneurship I (Units: 3)
Prerequisite: Entrepreneurship major or minor or consent of instructor.

The entrepreneurial process and the different kinds of entrepreneurial outcomes. Opportunity identification through analysis of industry niches. (Plus-minus letter grade only)

MGMT 431 Introduction to Entrepreneurship II (Units: 3)
Prerequisite: MGMT 430 with a grade of C- or better.

Skills needed in order to turn an opportunity into reality by gaining access to resources rather than ownership. Effective networking, outsourcing and strategic alliances. (Plus-minus letter grade only)

MGMT 432 Entrepreneurial Approach to Resources (Units: 3)
Prerequisite: MGMT 431 with a grade of C- or better.

Types of entrepreneurial entry strategies; factors influencing the selection of an appropriate strategy and the translation of that strategy into effective tactics. (Plus-minus letter grade only)

MGMT 433 Building the Entrepreneurial Venture (Units: 3)
Prerequisites: MGMT 432 with a grade of C- or better; concurrent enrollment in MGMT 437.

How entrepreneurs and owners of small businesses can keep their businesses alive and vital as they grow sales and expand to new markets. (Plus-minus letter grade only)

MGMT 435 International Entrepreneurship (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to entrepreneurship in international contexts and its role in economic development. Will help students understand how entrepreneurs in different cultures and economic systems create, find and use resources to build growth oriented ventures. (Plus-minus letter grade only)

MGMT 437 Entrepreneurial Internship (Units: 3)
Prerequisite: Upper division status; open to business and non-business majors.

Examination of how entrepreneurial principles play out in real world. [CSL may be available]

MGMT 535 Selected Topics in Entrepreneurship (Units: 3)
Prerequisites: Upper division standing or consent of instructor; MGMT 405.

Topic to be specified in Class Schedule. May be repeated for a total of 6 units as topics vary. (Plus-minus letter grade only)

MGMT 567 Internship in Management (Units: 3)
Prerequisites: MGMT 405 with a grade of C- or better; consent of instructor; department chair, and business internship.

Experience in a business field. Individual conferences with instructor. Major report required. May be repeated for a total of 6 units. [CSL may be available]

MGMT 605 Seminar in Developing Management Skills (Units: 3)
Prerequisites: Restricted to Management majors; MGMT 405 with a grade of C or better.

Foundational course focusing on critical thinking and personal skills development in the essential areas of self-awareness/self-management, interpersonal skills, teamwork and organizational management. (Plus-minus letter grade only)

MGMT 610 Human Resource Management (Units: 3)
Prerequisite: MGMT 405 with a grade of C- or better.

Policies and practices in human resource management. Department functions including law, planning, recruitment, selection, performance appraisal, information systems, and current issues. (Plus-minus letter grade only)

MGMT 614 Fundamentals of Recruiting (Units: 3)
Prerequisite: MGMT 610 with a grade of C- or better.

Effective employee staffing. Job search and choice, interviewing, assessment centers, mentorships, ethical/legal staffing considerations. (Plus-minus letter grade only)

MGMT 618 International Human Resource Management (Units: 3)
Prerequisites: IBUS 330 with a grade of C- or better, MGMT 405 and MGMT 610; or consent of instructor.

International aspects of human resources. Legal requirements, cultural issues, and the management practices and systems critical for success. Students may not take the course a second time under an alternate prefix. (Plus-minus letter grade only)

(This course is offered as MGMT 618 and IBUS 618. Students may not repeat the course under an alternate prefix.)
MGMT 630 Managing Entrepreneurial Organizations (Units: 3)
Prerequisites: Restricted to upper division majors and minors in the College of Business; MGMT 405 with a grade of C- or better;
The essential tools and know-how needed to build a strong financial and management foundation for a successful business start-up. [Formerly a topic under MGMT 655]

MGMT 640 Managing Diversity in the Workplace (Units: 3)
Prerequisite: MGMT 405. Enrollment priority for management majors.
In-depth exploration of how gender, ethnicity, sexual orientation, age, physical ability and size impact employee experiences and management’s challenges and opportunities for developing the talents of diverse workers. (Plus-minus letter grade only)

MGMT 648 Seminar in Leadership and Influence Skills (Units: 3)
Prerequisites: Restricted to Management majors; MGMT 405 with a grade of C or better;
Focus on developing the necessary skills to effectively lead and influence others; systematic approach to understanding and applying leadership practices and influence techniques within organizations. (Plus-minus letter grade only)

MGMT 650 Creativity and Innovation (Units: 3)
Prerequisites: Restricted to Management majors; MGMT 405 with a grade of C or better;
Building innovative skills by breaking out of limiting patterns; integrating intuitive, rational, associative, sensory, motivational, and emotional intelligences; managing innovation through negotiating, collaborating, creating future scenarios. (Plus-minus letter grade only)

MGMT 655 Seminar in Emerging Issues in Management (Units: 3)
Prerequisites: Upper division standing; restricted to Management majors and minors; MGMT 405 with a grade of C- or better.
Topic to be specified in Class Schedule. May be repeated as topics vary. (Plus-minus letter grade only)

MGMT 656 Seminar in Managing Teams (Units: 3)
Prerequisite: MGMT 405 with a grade of C or better; enrollment priority for management majors.
Design, facilitate, and manage teams. Focus on skills related to team effectiveness. (Plus-minus letter grade only)

MGMT 659 Introduction to International Business Negotiation (Units: 3)
Prerequisites: IBUS 330 and MGMT 405 with a grade of C- or better or consent of instructor.
Intercultural negotiating skills become more essential as business becomes more global and participative. Exercises involving various protagonists, organizational contexts, and situations. (Plus-minus letter grade only)
(This course is offered as IBUS 659 and MGMT 659. Students may not repeat the course under an alternate prefix.)

MGMT 660 Perspectives on Mergers and Acquisitions (Units: 3)
Prerequisite: MGMT 605 with a grade of C or better or consent of instructor.
Human, cultural and organizational aspects of mergers and acquisitions and the role managers or supervisors may play during these events. (Plus-minus letter grade) [Formerly a topic under MGMT 655]

MGMT 670 Seminar in Organization Design and Change (Units: 3)
Prerequisites: Restricted to Management majors; MGMT 605 and MGMT 648 with grades of C- or better, and one elective (from elective list); or MGMT 605 and two electives from elective list. (Electives: MGMT 567, MGMT 610, MGMT 630, MGMT 650, MGMT 655, MGMT 656, MGMT 659, or MGMT 660).
Culminating experience for management majors building on knowledge and skills from previous management courses. Emphasizes applied organization theory, strategies and techniques that organizations can use to assess and respond to global competitive demands, and the process of implementing organizational change. (Plus-minus letter grade only)

MGMT 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.
Intensive problem analysis under the direction of a management faculty member. Open only to upper division students who have demonstrated ability to do independent work. [CSL may be available]

MGMT 831 Overview of the Entrepreneurial Process (Units: 3)
Prerequisites: BUS 782, BUS 784, and BUS 788; restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
The entrepreneurial approach to business decision-making. Stages in the process. Types of entrepreneurial outcomes, including new venture creation. (Plus-minus letter grade only)

MGMT 842 Seminar in Organization Design and Change (Units: 3)
Prerequisite: BUS 788; restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Complex organizations: analyzing interrelationships among structure, strategy, systems, people, and management style. Concepts, practices, and problems related to organization effectiveness impacted by changing domestic and international environments. (Plus-minus letter grade only)

MGMT 848 Seminar in Leadership (Units: 3)
Prerequisites: BUS 788 or equivalent; restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Analysis of leadership patterns and opportunities in increasingly complex organizational environments. (Plus-minus letter grade only)

MGMT 850 Ethics and Compliance in Business (Units: 3)
Prerequisite: Restricted to graduate business students or students in the Ethics and Compliance Certificate program; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Focus on integrity, understanding and applying managerial ethical decision-making; understanding regulatory compliance as it relates to organizational functions; developing ethics training, and evaluating stakeholder impacts. Use of decision-making application models through case studies and interactive exercises. (Plus-minus letter grade only)
[Formerly MGMT 855, topic "Ethics Decision Making"]

MGMT 855 Seminar in Emerging Issues in Management (Units: 3)
Prerequisites: BUS 788 or consent of instructor; restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)
MGMT 856 Managing the Sustainable Business (Units: 3)
Prerequisite: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Skills and perspectives required to manage and operate a sustainable business. Focus on the tools necessary to perform each business function (such as marketing, manufacturing, distribution, purchasing, HR, R&D, information systems, finance, accounting) taking environmental and social implications into account. (Plus-minus letter grade only)

MGMT 857 Leadership in Action (Units: 3)
Prerequisites: four 800-level business courses; restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

The boardroom—overview from the top executive’s perspective. Conducted by corporate CEO. Students function as a board of directors. Managerial functions and operations. "Bottom-line" concept. (Plus-minus letter grade only)

MGMT 858 Innovation for Sustainability (Units: 3)
Prerequisites: BUS 784; restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Focus on business innovation to meet society’s emerging needs. Practical knowledge and experience in understanding needs not met effectively by current business practices and in developing innovative business strategies to address them. (Plus-minus letter grade only)

MGMT 863 Seminar in Social Entrepreneurship (Units: 3)
Prerequisite for CFS 863: Graduate standing.
Prerequisite for MGMT 863: Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Exploration of how entrepreneurial individuals and companies find innovative methods to leverage scarce resources in the pursuit of social values. Special focus on socially responsible business practices used in the apparel industry. (AB/NC grading only) [CSL may be available] (This course is offered as CFS 863 and MGMT 863. Students may not repeat the course under an alternate prefix.)

MGMT 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive study of a particular problem under the direction of a management faculty member. Open only to graduate students of demonstrated ability to do independent work. (Plus-minus letter grade only) [CSL may be available]
Marine Science (MSCI)

MSCI 303 Marine Ecology (Units: 4)
Prerequisites: Ecology, statistics (or concurrent registration in MSCI 304), or consent of instructor.
Interrelationships between marine and estuarine organisms and their environment; quantitative data collection and analysis. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 304 Quantitative Marine Science (Units: 4)
Prerequisite: College mathematics.
Mathematical methods for the analysis of biological, chemical, and physical data from the marine environment; experimental design, parametric and non-parametric statistics. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)

MSCI 305 Marine Science Diving (Units: 3)
Prerequisite: Certified SCUBA diver, or equivalency as determined by instructor.
Skin and scuba diving; five ocean dives include underwater sampling and survey techniques. Successful completion gives NAUI and MLML certification. (No credit toward major.) Classwork, 1 unit; laboratory and fieldwork, 2 units. (Plus-minus letter grade only)

MSCI 312 Marine Birds and Mammals (Units: 4)
Prerequisites: Upper division college vertebrate zoology; MSCI 303 or BIOL 585 recommended.
Systematics, morphology, ecology, and biology of marine birds and mammals. Classwork, 2 units; laboratory and fieldwork, 2 units. (Plus-minus letter grade only)

MSCI 313 Marine Ichthyology (Units: 4)
Prerequisites: College-level zoology or equivalent; MSCI 303 or BIOL 585 recommended.
The taxonomy, morphology, function, and ecology of marine fishes. Classwork, 2 units; laboratory and fieldwork, 2 units. (Plus-minus letter grade only) (Not open to students who have completed BIOL 571.)

MSCI 324 Marine Invertebrate Zoology I (Units: 4)
Prerequisites: College zoology or consent of instructor; MSCI 303 recommended.
Structure, systematics, evolution, and life histories of the major and minor marine phyla. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 331 Marine Botany (Units: 4)
Prerequisite: MSCI 303 recommended.
Plants of the sea, marshes, and dunes; morphology, taxonomy, and natural history of seaweeds and vascular plants. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 335 Physiological Ecology of Marine Algae (Units: 4)
Prerequisites: MSCI 344, MSCI 331, MSCI 303, or consent of instructor.
Physiological basis for understanding the adaptation of marine algae to their environment. Classwork, 2 units; laboratory, 2 units.

MSCI 341 Geological Oceanography (Units: 4)
Prerequisite: MSCI 342 or MSCI 343 (may be taken concurrently).
The structure, physiography, and composition of the sea bottom and shoreline. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 342 Physical Oceanography (Units: 4)
Prerequisites: College algebra; college physics recommended.
Nature and causes of various oceanic motions including currents, waves, tides, and mixing, and the physical properties of seawater. Limited use of calculus. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 343 Chemical Oceanography (Units: 4)
Prerequisite: One year of college chemistry.
Chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 344 Biological Oceanography (Units: 4)
Prerequisites: General biology, general chemistry.
Complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrient cycles. Sampling, shipboard techniques, identification of the plankton, and analytical techniques. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor.
Faculty-directed study of selected research problems in the marine sciences. Open to undergraduate students having adequate subject matter preparation for the selected problem. May be repeated for credit.

MSCI 701 Library Research Methods in Marine Science (Unit: 1)
Prerequisites: Graduate status and consent of instructor.
The nature of scientific information. Framework for evaluating and interweaving the history of science with a variety of information sources and bibliographic tools. (Plus-minus letter grade only)

MSCI 706 Molecular Biological Techniques (Units: 4)
Prerequisites: Graduate status, college genetics or molecular biology or consent of instructor.
A laboratory-based overview of concepts and techniques for the isolation, characterization, and analysis of DNA and RNA. Covers standard methods (amplification, cloning, and sequencing), as well as selected specialized techniques (analysis of gene expression), emphasizing application in marine sciences. Classwork, 1 unit; laboratory, 3 units. (Plus-minus letter grade only)

MSCI 708 Scientific Methods (Units: 4)
Prerequisites: Graduate status and consent of instructor.
Information and skills for graduate students beginning their research careers, such as the philosophy of science, scientific writing, design of experiments and sampling programs, and using library and other resources. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)
MSCI 709 Foundations in Global Change in Urbanized Coasts and Estuaries (Units: 6)
Prerequisites: Admission to the Interdisciplinary MS RIP TIDES Graduate Training Program; concurrent enrollment in BIOL 708.
Developing interdisciplinary working knowledge at intersection of global change (climate change, ocean acidification, invasive species, disease, land use), coastal oceanography (physical, biological, chemical, geological), marine/estuarine biology (biodiversity, population, ecosystem, physiology), and societal issues (general public, managers, policymakers). (Plus-minus letter grade only)

MSCI 711 Ecology of Marine Birds and Mammals (Units: 4)
Prerequisites: MSCI 303, MSCI 304, and MSCI 312.
Ecology of marine birds and mammals using experimental and sampling methodology. Distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough. Aerial and boat surveys to determine distribution and abundance. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 717 Writing and Professional Skills Workshop I: Introduction and Methods, Data Analysis and Graphics (Unit: 1)
Prerequisite: Admission to the Interdisciplinary MS RIP TIDES Graduate Training Program.
Weekly discussion of scientific writing statistical analysis, and professional skills with a focus on thesis writing, submit proposals for research funding and fellowships, learn the statistical tests needed for their research projects, and have a clear understanding of how to apply to Ph.D. programs. (Plus-minus letter grade only)

MSCI 718 Writing and Professional Skills Workshop II: Completion of the thesis manuscript (Unit: 1)
Prerequisite: Admission to the Interdisciplinary MS RIP TIDES Graduate Training Program.
Weekly discussion of scientific writing, data analysis/scientific graphics, and professional skills geared towards job and Ph.D. program opportunities following completion of MS degree. Includes completing an entire draft of MS Thesis and learn to submit it for publication. Students gain skills in interviewing for Ph.D. programs and employment opportunities. (Plus-minus letter grade only)

MSCI 721 Advanced Topics in Marine Invertebrates: Marine Invertebrates (Units: 4)
Prerequisites: MSCI 324 and consent of instructor.
Advanced considerations of the ecology, physiology and phylogeny of the various invertebrate phyla emphasizing current literature and research. Classwork, 2 units; laboratory, 2 units. May be repeated once for credit.

MSCI 731 Biology of Seaweeds (Units: 4)
Prerequisite: MSCI 331 or consent of instructor.
Lecture-discussions on marine macroalgal biology with extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation. Classwork, two units; laboratory, two units. (Plus-minus letter grade only)

MSCI 733 Advanced Topics in Marine Ecology: Marine Ecology (Units: 4)
Prerequisite: Graduate standing.
Study of various topics in marine ecology. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 734 Advanced Biological Oceanography (Units: 4)
Prerequisite: MSCI 344 or consent of instructor.
Experimental techniques in biological oceanography problems in plankton ecology. Individual research project required. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 746 Geology of the Monterey Bay Region (Units: 4)
Prerequisite: Graduate status or consent of instructor.
Geology, tectonics, and active naturally occurring processes in the Monterey Bay region and in the Monterey Bay National Marine Sanctuary. The geologic and tectonic history of central California, plate tectonic processes, representative stratigraphy and geomorphology of the Monterey Bay region. Classwork, 1 unit; laboratory, 3 units. (Plus-minus letter grade only)

MSCI 748 Marine Benthic Habitat Mapping Techniques (Units: 4)
Prerequisite: Graduate status or consent of instructor.
The collection and interpretation of geophysical data used to characterize marine benthic habitats. Basic geophysical principals are reviewed. Application of techniques to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 761 Ocean Circulation and Mixing (Units: 4)
Prerequisites: MSCI 342; college physics strongly recommended.
Mathematical description of the distribution of various properties in the oceans relating to physical and biochemical processes. Distribution of variables, geostrophic method. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)

MSCI 763 Applications of Computers in Oceanography (Units: 4)
Prerequisites: College mathematics and consent of instructor.
Discussion and technical programming with MATLAB for computation and visualization with applications in marine science. Use of existing program libraries for data I/O and analysis. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 771 Population Biology (Units: 3)
Prerequisites: MSCI 303 or BIOL 585 and MSCI 304 or statistics or consent of instructor.
Interactions among marine organisms which result in the alteration of population structures. Techniques for assessment and management of animal populations. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

MSCI 772 Subtidal Ecology (Units: 4)
Prerequisites: MLML diver certification and marine ecology; knowledge of marine algae, invertebrates, and statistics recommended.
The ecology of near shore, rocky, subtidal populations and communities with emphasis on kelp forests. Field work with SCUBA including group projects on underwater research techniques and community analysis. (Plus-minus letter grade only)
MSCI 773 Marine Environmental Studies of the Gulf of California (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

An analysis of Gulf of California marine environments. Lectures, readings, intensive fieldwork, and writing a scientific paper based on original research. Topics vary. Taught with Mexican faculty and students from La Paz, Mexico. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 774 Advanced Topics in Oceanography: Oceanography (Units: 4)
Prerequisite: Graduate standing or consent of instructor.

Selected topics in oceanography. Topics and emphases vary with term and instructor. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

MSCI 781 Coastal Dynamics (Units: 4)
Prerequisite: Graduate standing and MSCI 341 or MSCI 342.

Oceanographic dynamics of coastal environments, emphasis on eastern boundary current systems influenced by coastal upwelling. Focus on how physical and geological oceanography interact with each other, and how both affect coastal ecosystem dynamics.

MSCI 788 Professional Internship in Marine and Estuarine Sciences (Units: 3)
Prerequisite: Admission to the Interdisciplinary MS RIP TIDES Graduate Training Program.

Professional internship with a partner organization one day per week. Partners are from wide range of organizations where scientific information is used, not generated. Students will relate what they learn to classmates during weekly group meetings and group discussions with internship mentors to address student career planning questions. (Plus-minus letter grade only)

MSCI 885 Seminar in Marine Biology (Units: 2)
Prerequisite: Graduate standing or consent of instructor.

Topic to be specified in Class Schedule. May be repeated once. (Plus-minus letter grade only)

MSCI 897 Research (Units: 1-4)
Prerequisites: Filing of petition, "Course by Individual Study," and consent of adviser, instructor, and department chair.

Independent investigations for the student with adequate preparation. May be repeated.

MSCI 898 Master's Thesis (Units: 4)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)
Marketing (MKTG)

MKTG 431 Principles of Marketing (Units: 3)
Prerequisite: Upper division standing.
Introduction to marketing principles and functions designed to satisfy an organization's target markets by offering an appropriate marketing mix consisting of product, price, place and promotion in domestic and international settings.

MKTG 432 Public Relations (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Communication, attitudes, opinion, ethical conduct, and responsible social performance as foundations of effective public relations. Relevant current events and public relations programs. Models for analysis and practice. Philosophical, historical, and environmental influences.

MKTG 433 Personal Selling (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Psychological factors underlying prospect behavior from initial recognition of need to final purchase of products and services.

MKTG 434 Advertising Theory and Practice (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Economic aspects of advertising; selection of media, testing effectiveness; organization for carrying out advertising activities, principles, and procedures.

MKTG 436 Retail Management (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Organization of a single-unit and multi-unit retail institution. Operational problems: location, layout, merchandise handling, customer service, protection, and expense control.

MKTG 440 Advertising Creativity and Production (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 434 and MKTG 632 with grades of C or better;
Creation and production of advertising for different clients. Strategy and creative development, with production for a variety of media. Classwork, 2 units; laboratory, 1 unit. [CSL may be available]

MKTG 441 Business to Business Marketing (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Transaction channels through which goods and services are sold and purchased. Roles of marketing channel members and intermediaries.

MKTG 443 Sales Promotion and Publicity (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Introduction to the theories and practice of sales promotion and publicity. Consumer behavior, foundations of sales promotions, manufacturer and retailer sales promotion planning; types of trade and consumer sales promotions. (Plus-minus letter grade only)

MKTG 469 Digital Marketing (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Overview of digital technologies and networks and their applications for marketing to consumers and businesses. Study of best practices on the use of web, social media and mobile marketing by businesses, government and non-profit organizations. Exploration, analysis and assessment of the effectiveness of digital marketing campaigns.

MKTG 567 Internship in Marketing (Units: 3)
Prerequisites: Restricted to marketing majors; MKTG 431; consent of instructor, department chair, and appropriate employment.
Experience in a business field. Principles, theory, and practice applied to real situations. Major report required. May be repeated for a total of 6 units.

MKTG 632 Marketing Research (Units: 3)
Prerequisites: Restricted to marketing majors; DS 212; MKTG 431; ISYS 263 or pass computer information systems proficiency test. Other students may add on a space available basis.
Research design and methodology. Analyze, evaluate, and utilize marketing research findings. Use of case method and computer applications to make marketing decisions.

MKTG 633 Consumer Behavior (Units: 3)
Prerequisites: Restricted to marketing majors; MKTG 431; open to other majors on a space-available basis.
Behavioral models explore consumer needs and motivation incorporating psychological theory applied to personality traits, learning, perception, symbolism and communications, social influences and understanding consumer behavior.

MKTG 637 Sales Management (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Role of sales managers in line and staff planning. Selection, organization, supervision, compensation, and motivation of the sales force. Coordination of sales with other marketing functions. Measuring the sales manager's contribution to profitable operations.

MKTG 644 Services Marketing (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Recognizing the importance of services in the global economy, this course provides theory, frameworks and tools for addressing the unique challenge of marketing in industries such as banks, healthcare, transportation and entertainment.

MKTG 647 Organizational Reputation Management and Communication (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Assessment and management of reputational risks stemming from behavior of senior executives or employees, failures in safety, accidents, rumors, etc. Focus on the communication strategies and tactics to rebuild trust and restore organizational regulation.

MKTG 649 Marketing Management (Units: 3)
Prerequisites: Restricted to marketing majors; MKTG 431, MKTG 632, and MKTG 633; other students may add on a space available basis.
Planning, organizing, integrating, and measuring the total marketing plan. Problems of managing the marketing function. Managerial supervision and control of marketing.

MKTG 660 Marketing Analytics (Units: 3)
Prerequisites: Restricted to marketing major; MKTG 632 with a grade of C-.
Examination of techniques to manipulate, visualize, and analyze secondary data to address a variety of marketing issues in areas such as segmentation, customer relationship management, advertising, and digital marketing through hands-on experience using case studies and real-world marketing data.
MKTG 675 Brand Management (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Examination of the theories, concepts, principles and strategies necessary to manage brands in the marketplace.

MKTG 680 International Marketing Management (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Environmental factors affecting world marketing management; consumer and industrial products market patterns; establishing channels of distribution; management of marketing functions including communication, pricing, product policy; promotion, financing, and logistics.

MKTG 688 New Product Management Seminar (Units: 3)
Prerequisites: Restricted to marketing majors and minors; MKTG 431.
Product and innovation management for creating, developing, and commercializing new products and innovations. Emphasizes the importance of creativity, innovativeness, and entrepreneurship as the sources of new products and new venture businesses. (Plus-minus letter grade only)

MKTG 689 New Product Marketing and Launch (Units: 3)
Prerequisites: Restricted to Marketing majors; MKTG 431, MKTG 688; or consent of instructor.
Students use consumer insights to refine existing product concepts, develop branding elements, forecast sales, determine the Net Present Value, and develop a Marketing Plan. The Marketing Plan will involve pricing, promotion (advertising, sales, public relations, and social media), and retailing components. (Plus-minus letter grade only)

MKTG 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.
Intensive problem analysis under the direction of a marketing faculty member. Open only to upper division students who have demonstrated ability to do independent work. [CSL may be available]

MKTG 820 Digital Marketing (Units: 3)
Prerequisites: Graduate standing; BUS 787.
The use of digital marketing tools and techniques such as websites, online advertising, search engine marketing, social media, mobile marketing, content marketing, and email marketing to acquire, convert, retain, and grow customers. The marketing approach in the course is data-driven. (Plus-minus AB/NC)

MKTG 860 Strategic Marketing (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Survey of marketing strategy focusing on the development of marketing plans for product markets, including analyses of external, competitive, customer and internal environments, target market selection, statement of differentiation and positioning, product, pricing, communication and promotion. (Plus-minus letter grade)

MKTG 861 Consumer Behavior Seminar (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Psychology and social sciences’ contribution to understanding and predicting consumer behavior. Theories of motivation, clinical and statistical approaches to analysis of motivation, systems and models in predicting consumer response, and applications in advertising and personal selling. (Plus-minus letter grade only)

MKTG 862 Seminar in Advertising (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Influence and communication forces of advertising in light of changing economic, social and governmental conditions; quantitative aspects of advertising problems. (Plus-minus letter grade)

MKTG 864 Seminar in Marketing Research (Units: 3)
Prerequisites: BUS 782 and BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Review basic research process and design; introduction to advanced topics in marketing research including multivariate analysis techniques. Emphasis on application; extensive use of computer spreadsheet and statistical packages. (Plus-minus letter grade only)

MKTG 867 Public Relations (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Management function that enables organizations to communicate with internal and external audiences to build and maintain mutually beneficial relations; ethical and legal issues in public and media relations. (Plus-minus letter grade only)

MKTG 875 Brand Management (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
Concepts, principles, theories and strategies used to manage brands in a competitive environment. (Plus-minus letter grade only)

MKTG 880 Seminar in International Marketing Management (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.
International market entry and expansion, organizing for world marketing management, financial and legal factors affecting world marketing management, world marketing strategy, and long-range planning and policy formulation. (Plus-minus letter grade only)
MKTG 885 Marketing of High-Technology Products and Services (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

High-tech products and services are characterized by high levels of market, technology and competitor uncertainty. For such turbulent environments, this course will synthesize decision frameworks and strategies that reflect best-practices in the area of high-technology marketing. (Plus-minus letter grade only)

MKTG 888 Product Development and Management (Units: 3)
Prerequisite: BUS 787. Restricted to graduate business student; graduate students in other majors with the consent of the Faculty Director of Graduate Programs.

Identifies innovative marketing strategies, familiarizes student with product development and management processes for creating new products and bringing them to the market. Professional marketing plans for new or existing products. (Plus-minus letter grade only)

MKTG 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor, adviser, and department chair.

Intensive study of a particular problem under the direction of a marketing faculty member. Open only to graduate students of demonstrated ability to do independent work. (Plus-minus letter grade only) [CSL may be available]
Mathematics (MATH)

MATH 50 Preparatory Mathematics for Pathways Courses (Units: 4)
Prerequisite: ELM scores below 50; restricted to students who have committed to take pathway course such as STAT way.

Treatment of selected key topics from two remedial mathematics courses MATH 60/ESM 60 and MATH 70/ESM 70. Some selections are tailored to the needs of the subsequent pathway course, while other selections are meant to round out the students’ quantitative literacy. (A/A-/B+/B-/C+/C/NC grading only)

Course Attributes:
• Pre-Collegiate

MATH 60 Entry Level Math I (Units: 3)
Equivalent to first year high school algebra. Fundamental operations on numbers, polynomials, and rational expressions; factoring, linear equations, and inequalities. Units and grades earned do not count towards graduation requirements. (A/A-/B+/B-/C+/C/NC grading only)

Course Attributes:
• Pre-Collegiate

MATH 70 Entry Level Math II (Units: 3)
Prerequisite: MATH 60/ESM 60 with a grade of C or better or a score of 42 or above on ELM.
Equivalent to second year high school algebra. Exponents, radicals, logarithms, systems of linear equations, complex numbers, quadratic equations. Units and grades earned do not count towards graduation requirements. (A/A-/B+/B-/C+/C/NC grading only)

Course Attributes:
• Pre-Collegiate

MATH 110 Business Calculus (Units: 3)
Prerequisite: ELM exempt status, or MATH 70/ESM 70 with grade of C or better.

Functions, derivatives, and integrals. Applications of differentiation and integration, including optimization and moving averages. Problems involving business, finance, and economics. Elements of basic calculus.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
• B4: Math/QR

MATH 124 Elementary Statistics (Units: 3)
Prerequisite: Satisfactory completion of ELM requirement.

Data analysis, probability, and statistical inference. For students in any field where statistics is a means of communication and a tool for decision making.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
• B4: Math/QR

MATH 165 Concepts of the Number System (Units: 3)
Prerequisites: Satisfactory completion of ELM requirement.

Designed for prospective multiple subjects credential candidates. Understanding operations with whole numbers, fractions, and decimals. Problem solving strategies, numeration systems, and elementary number theory.

MATH 199 Pre-Calculus (Units: 4)
Prerequisite: Satisfactory completion of ELM requirement.

Functions, graphing techniques, exponentials and logarithms, trigonometry. [Formerly MATH 109]
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
• B4: Math/QR

MATH 226 Calculus I (Units: 4)
Prerequisites: Satisfactory completion of ELM requirement; acceptable score on the department's Calculus readiness test (instructions will be provided after enrollment); and one of the following: MATH 199 or equivalent with a grade of C or better; passing a high school math analysis or pre-calculus class with a grade of B or better.

(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
• B4: Math/QR

MATH 227 Calculus II (Units: 4)
Prerequisite: MATH 226 with a grade of C or better.

Techniques of integration, analytic geometry, polar coordinates, vectors, improper integrals. Sequences and series.

MATH 228 Calculus III (Units: 4)
Prerequisite: MATH 227 with a grade of C or better.

Three-dimensional analytic geometry, partial differentiation, multiple integrals, vector calculus. Classwork, 3 units; laboratory, 1 unit.

MATH 245 Elementary Differential Equations and Linear Algebra (Units: 3)
Prerequisite: MATH 228 with a grade of C or better.

First and second order linear differential equations, Laplace transform methods, Fourier series, matrix algebra.

MATH 265 Advanced Number Systems (Units: 3)
Prerequisite: MATH 165 with a grade of C or better.

Designed for prospective multiple subject credential candidates, continues work done in MATH 165 with decimals and percents. Introduces operations with negative numbers. Additional topics include problem solving and elementary number theory.
MATH 300GW History of Mathematics - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better;
MATH 227 or equivalent with a grade of C or better.
Survey of the history of mathematics, focusing on topics of interest
to secondary mathematics teachers. Emphasis on telling the story of
mathematics through researching and writing an expository paper. (ABC/
NC grading only)
Course Attributes:
• Graduation Writing Assessment

MATH 301GW Exploration and Proof - GWAR (Units: 3)
Prerequisites: MATH 227 and ENG 214 with grades of C or better.
Informal exploration and proofs in mathematics; basic concepts of
advanced mathematics courses. Exploratory thinking, elementary logic,
sets, mathematical induction, the integers, relations, and functions. (ABC/
NC grading only)
Course Attributes:
• Graduation Writing Assessment

MATH 310 Elementary Number Theory (Units: 3)
Prerequisites: MATH 227 and MATH 301GW with grades of C or better.
Divisibility, congruences, power residues, quadratic reciprocity,
diophantine equations. Number theoretic functions, continued fractions
and rational approximation, partitions.

MATH 314 Math Circle Seminar (Units: 3)
Prerequisite: MATH 226 or equivalent with a grade of C or better.
Opportunity to relate mathematics being learned to the teaching and
learning of mathematics and problem-solving skills at the middle and
high school levels through participation in math circles. [CSL may be available]

MATH 324 Probability and Statistics with Computing (Units: 3)
Prerequisites: MATH 227 with a grade of C or better; computer experience
that meets the approval of the instructor; basic concepts of probability
and statistics.
Data analysis, probability distributions, confidence intervals, and
hypothesis testing. Students use computer software to do statistical
analyses.

MATH 325 Linear Algebra (Units: 3)
Prerequisites: MATH 227 with a grade of C or better; CSC 230 or
MATH 301GW recommended.
Vector spaces, linear transformations, elements of matrix algebra
including determinants and eigenvalues.

MATH 335 Modern Algebra (Units: 3)
Prerequisites: MATH 301GW with a grade of C or better or consent of
instructor; MATH 325 with a grade of C or better.
Introduction to groups, rings, integral domains, fields, and ordering.

MATH 338 Introduction to SAS (Units: 3)
Prerequisites: MATH 124 (or equivalent) and one of the following:
CSC 210, CSC 309, or consent of instructor, with grades of C or better.
Using SAS software for data management, presentation of data using
tables and graphs, calculation of basic statistics such as mean,
standard error, percentiles. Analysis of data using t-test, Chi-square test,
regression, and analysis of variance.

MATH 350 Geometry (Units: 3)
Prerequisites: MATH 228 and MATH 301GW with grades of C or better.
Introduction to the origin and foundations of geometry: Euclidean, non-
Euclidean geometries, more recent approaches. Quick survey of high
school geometry. Classification and representation of motions and
similarities. Projections, homogeneous coordinates.

MATH 370 Real Analysis I (Units: 3)
Prerequisites: MATH 228 and MATH 301GW with grades of C or better.
Critical development of analysis: Bolzano-Weierstrass and Heine-Borel
theorems; limits, continuity, differentiability, integrability.

MATH 375 Field Study for Secondary Teachers (Units: 3)
Prerequisites: MATH 301GW with a grade of C or better, or consent of
instructor.
Completion of tuberculosis test and fingerprinting for work in the public
schools. Opportunity for students to relate the mathematics they are
learning to the teaching and learning of mathematics at the middle and
high school levels; at the same time, fulfill the 45-hour field experience
requirement for prospective teachers.

MATH 376 Ordinary Differential Equations I (Units: 3)
Prerequisites: MATH 228 and MATH 325 with grades of C or better.
First-order differential equations, second-order linear equations with
constant coefficients, graphical and numerical methods, systems
of differential equations and phase-plane analysis, existence and
uniqueness theorems.

MATH 380 Introduction to Functions of a Complex Variable (Units: 3)
Prerequisite: MATH 228 with a grade of C or better.
Analytic functions of a complex variable. Cauchy’s theorem, power series,
laurant series, singularities, residue theorem with applications to definite
integrals. Conformal mappings.

MATH 400 Numerical Analysis (Units: 3)
Prerequisites: MATH 228, MATH 325, and CSC 210, all with grades of C or
better.
Numerical solution of algebra and calculus problems. Interpolation
and approximations; direct and iterative methods for solutions of
linear equations. Gaussian elimination. Numerical differentiation and
integration; solution of ordinary differential equations.

MATH 414 Analyzing DNA Topology with Math/Computational Methods
(Units: 3)
Prerequisite for MATH 714: Graduate standing or consent of instructor.
Prerequisite for MATH 414: MATH 228 (or equivalent) with a grade of C or
better.
Students from mathematics, computer science and biology will be
introduced to mathematical and computational techniques used to
analyze DNA structure. Strong interaction between math and biology is
emphasized. (MATH 714/MATH 414 is a paired course offering. Students who
complete the course at one level may not repeat the course at the other
level.)
MATH 420 Combinatorics (Units: 3)
Prerequisites: MATH 301GW and one of the following: MATH 310, MATH 325, CSC 230; with grades of C or better.

An introduction to fundamental combinatorial objects, their uses in other fields of mathematics and its applications, and their analysis. Does an object with certain prescribed properties exist? How many of them are there? What structure do they have?
(MATH 720/MATH 420 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 424 Introduction to Linear Models (Units: 3)
Prerequisites: MATH 227 and MATH 325 with grades of C or better.

Theory and applications of Linear Models, Multiple Regression, Analysis of Variance for Fixed and Random Effects; Nested and Crossed Treatments; and Experimental Design.
(MATH 724/MATH 424 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 430 Mathematics of Optimization (Units: 3)
Prerequisite: MATH 325 with a grade of C or better.

Modeling and solution of optimization problems as linear, semidefinite, nonlinear, or integer programming problems. Analysis and interpretations of solutions to these problems.

MATH 435 Modern Algebra II (Units: 3)
Prerequisite: MATH 335 with a grade of C or better.

Group actions, conjugacy classes, Sylow’s Theorem. Rings, modules, vector spaces, and finitely generated modules over PIDs. Field extensions and finite fields.
(MATH 735/MATH 435 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 440 Probability and Statistics I (Units: 3)
Prerequisites: MATH 228 with a grade of C or better (may be taken concurrently); MATH 124 or equivalent recommended.

Probability spaces, elementary combinatorics, random variables, independence, expected values, moment generating functions, selected probability distributions, limit theorems and applications. [Formerly MATH 340]

MATH 441 Probability and Statistics II (Units: 3)
Prerequisite: MATH 440 [formerly MATH 340] with a grade of C or better.

Sampling distributions, estimation of parameters, hypothesis testing, goodness-of-fit tests, linear regression, and selected non-parametric methods.
(MATH 741/MATH 441 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 442 Probability Models (Units: 3)
Prerequisite: MATH 440 [formerly MATH 340] with a grade of C or better.

Advanced topics in probability theory: discrete and continuous time Markov chains, Poisson process, queuing systems, and applications.

MATH 447 Design and Analysis of Experiments (Units: 3)
Prerequisites: MATH 325 and MATH 440 [formerly MATH 340] with a grade of C or better.

Learn how to plan, design and conduct experiments, and analyze the resulting data.

MATH 448 Introduction to Statistical Learning and Data Mining (Units: 3)
Prerequisite: MATH 440 [formerly MATH 340] with grade of C or better or consent of instructor.

Modern techniques in the statistical analysis of data, including regression, classification, regularization methods, model selection, non-parametric methods, dimensionality reduction and clustering; employ statistical software to analyze real data using advanced methods from statistics, machine learning, data mining, and pattern recognition.

MATH 449 Categorical Data Analysis (Units: 3)
Prerequisite: MATH 440 [formerly MATH 340] with grade of C or better or consent of instructor.

Descriptive and inferential methods for contingency tables; generalized linear models for discrete data; logistic regression for binary responses; multi-category logistic models for nominal and ordinal responses; loglinear models; inference for matched-pairs and correlated clustered data.

MATH 450 Topology (Units: 3)
Prerequisite: MATH 370 with a grade of C or better.

Rigorous development of the theory of metric spaces and topological spaces. Concepts covered include open, closed sets, interior, closure, boundary of sets; connects sets, compact sets, continuous functions defined on metric and topological spaces.

MATH 451 Introduction to Differential Geometry (Units: 3)
Prerequisites: MATH 228 and MATH 325 with grades of C or better, and either MATH 370 or MATH 450. These requirements may be waived upon the consent of instructor.

Study of intrinsic surface along with a topological invariant known as the Euler characteristic. Aim is to prove that the Euler characteristic of a compact orientated surface is numerically equal to the total index of any vector field with isolated zeroes (Poincare-Hopf Index theorem), the total Gaussian curvature (Gauss-Bonnet-Chern theorem), and the algebraic total of the number of non-degenerate critical points (Morse theorem).

MATH 460 Mathematical Modeling (Units: 3)
Prerequisites: MATH 325 and either MATH 245 or MATH 376, with grades of C or better.

Deterministic and stochastic techniques used in mathematical modeling, illustrated and developed through problems originating in industry and applied research.

MATH 470 Real Analysis II - Several Variables (Units: 3)
Prerequisite: MATH 370 with a grade of C or better, or consent of instructor.

Sequences and series of functions, uniform convergence, real-analytic functions, metric spaces, open and closed sets, compact and connected sets, continuous functions.
(MATH 770/MATH 470 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
MATH 471 Introduction to Fourier and Wavelet Analysis (Units: 3)
Prerequisite for MATH 771: Graduate standing; MATH 370 with a grade of C or better; or consent of instructor.
Prerequisite for MATH 471: MATH 370 with a grade of C or better.
Sequences and series of functions, modes of convergence, Fourier series and integrals, wavelet analysis. (MATH 771/MATH 471 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 475 Capstone Course for Secondary Teachers of Mathematics (Units: 3)
Prerequisites: MATH 335 with a grade of C or better and one of the following: concurrent enrollment in MATH 370 or consent of instructor.
Builds on student's work in upper division mathematics to deepen understanding of the math taught in secondary school. Active exploration of topics in algebra, analysis, geometry and statistics.

MATH 477 Partial Differential Equations (Units: 3)
Prerequisite: MATH 376 with a grade of C or better.
Study of partial differential equations in rectangular and polar coordinates. Initial and boundary value problems for the heat equation and wave equation. Study of Fourier series, Bessel series, harmonic functions and Fourier transforms. (MATH 777/MATH 477 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 491 Game Theory (Units: 3)
Prerequisite: MATH 227 with a grade of C or better.
Normal, extensive and network forms. Strategy, bets reply and Nash equilibrium. Equilibrium path, information and beliefs, sequential rationality and perfect equilibria. Applications to learning, signaling, screening and deterrence. [Formerly a topic under MATH 490]

MATH 492 Group Representations (Units: 3)
Prerequisite: MATH 335 with a grade of C or better.
Basics of the representation theory of finite groups such as irreducible decompositions, Maschke's theorem, and characters. Presented using symmetric group; focus on combinatorics that arise: young tableau, Knuth-Robinson-Schensted correspondence, and hook formula. [Formerly a topic under MATH 490]

MATH 493 Introduction to Actuarial Mathematics (Units: 3)
Prerequisites: MATH 228 and either MATH 324 or MATH 440 [formerly MATH 340], with grades of C or better.
Measurement of interest, including accumulation and present value factors, annuities certain, survival distributions and life tables, life insurance and annuity functions, net premium reserves. [Formerly a topic under MATH 490]

MATH 494 Non-Parametric Statistics (Units: 3)
Prerequisite: Any introductory statistics course with grade of C or better, or consent of instructor.
Point and interval estimates, univariate hypotheses tests, multiple comparison measures. Applications to a wide variety of fields. [Formerly a topic under MATH 490]

MATH 495 Introduction to Wavelets and Frames with Applications (Units: 3)
Prerequisites: MATH 325 or MATH 370 with grades of C or better, or consent of instructor.
Fundamentals of wavelets, time frequency analysis, and frames, as well as applications in engineering and physics. [Formerly a topic under MATH 490]

MATH 565 Concepts of Geometry, Measurement, and Probability (Units: 3)
Prerequisite: MATH 165 with a grade of C or better.
Designed for prospective multiple subjects credential candidates. Spatial relationships and inductive reasoning in geometry, measurement emphasizing the metric system, and elementary statistics and probability.

MATH 575 Mathematics in the Middle School Classroom (Units: 3)
Prerequisite: MATH 565 with a grade of C or better, or consent of instructor.
Designed for current or prospective middle school teachers of mathematics. Topics in algebra, number theory, and geometry. (Plus-minus letter grade only)

MATH 576 Math in Middle Schools II (Units: 3)
Prerequisite: MATH 575 with a grade of C or better.
Continues to prepare students with content knowledge needed to teach algebra in middle school. Begins work in probability and statistics.

MATH 577 Math in Middle School III (Units: 3)
Prerequisite: MATH 576 with a grade of C or better.
Continues the work begun in MATH 575 and MATH 576 to prepare students with content knowledge needed to teach algebra, geometry, and probability and statistics in middle school.

MATH 578 Mathematics in the High School (Units: 3)
Prerequisites: MATH 577 or MATH 227 with a grade of C or better, or consent of instructor.
Designed for current or prospective high school teachers to focus on high school mathematics from an advanced perspective. Content from functions, calculus, and statistics.

MATH 690 Capstone Research for Mathematics Majors (Units: 3)
Prerequisites: Grades of C or better in MATH 325, MATH 335, and MATH 370; grades of C or better in a subset of the following MATH courses: MATH 310, MATH 324 or MATH 440 [formerly MATH 340], MATH 376, MATH 380, MATH 400, MATH 420, or MATH 491, MATH 492, MATH 493, MATH 494, MATH 495; or consent of instructor.
The specifics in that subset depend on the chosen research problem. Research problem, chosen by the instructor, to explore the interrelationships among the cornerstones in a typical undergraduate math major's course. These cornerstones are algebra, analysis, and probability and statistics. (Plus-minus letter grade only)

MATH 696 Applied Mathematics Project I (Unit: 1)
Prerequisite: MATH 460 with a grade of C or better. May be replaced by consent of instructor.
Preparation under faculty guidance of feasibility study and outline of a project in applied mathematics.
MATH 697 Applied Mathematics Project II (Units: 2)
Prerequisite: Successful completion of MATH 696 in a previous semester. May not be taken concurrently with MATH 696.
Completion of applied mathematics project. Presentation of oral and written report.

MATH 699 Independent Study (Units: 1-3)
Prerequisite: Approval of department and consent of instructor.
Special study of a particular problem under the direction of a member of the department. The student must present a written report of the work accomplished to the staff of the department. May be repeated.

MATH 700 Graduate Teaching Workshop (Units: 3)
Prerequisite: GTA status.
Discussion and analysis of teaching techniques, peer evaluation, peer classroom observations, guided groups and self analysis of videotapes; group project developing and studying common lesson materials.

MATH 710 Analysis I (Units: 3)
Prerequisite: MATH 470 with a grade of C or better, or consent of instructor.
Outer measure, Lebesgue measure and integration; convergence theorems; bounded variation, absolute continuity, and Lebesgue’s theory of differentiation.

MATH 711 Introductory Functional Analysis (Units: 3)
Prerequisites: MATH 470 and MATH 725 with grades of B- or better, or consent of instructor.
Metric spaces, Baire category; Banach and Hilbert spaces, bounded linear operators, dual spaces; the Hahn-Banach, closed graph, and open mapping theorems with applications; functional analysis topics.

MATH 714 Analyzing DNA Topology with Math/Computational Methods (Units: 3)
Prerequisite for MATH 714: Graduate standing or consent of instructor.
Prerequisite for MATH 414: MATH 228 (or equivalent) with a grade of C or better.
Students from mathematics, computer science and biology will be introduced to mathematical and computational techniques used to analyze DNA structure. Strong interaction between math and biology is emphasized.
(MATH 714/MATH 414 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 720 Combinatorics (Units: 3)
Prerequisites: MATH 301GW and one of the following: MATH 310, MATH 325, CSC 230; with grades of C or better.
An introduction to fundamental combinatorial objects, their uses in other fields of mathematics and its applications, and their analysis. Does an object with certain prescribed properties exist? How many of them are there? What structure do they have?
(MATH 720/MATH 420 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 724 Introduction to Linear Models (Units: 3)
Prerequisites: MATH 227 and MATH 325 with grades of C or better.
Theory and applications of Linear Models, Multiple Regression, Analysis of Variance for Fixed and Random Effects; Nested and Crossed Treatments; and Experimental Design.
(MATH 724/MATH 424 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 725 Advanced Linear Algebra (Units: 3)
Prerequisite: MATH 335 with a grade of C or better.
Vector spaces and linear maps on them. Inner product spaces and the finite-dimensional spectral theorem. Eigenvalues, the singular-value decomposition, the characteristic polynomial, and canonical forms.

MATH 728 Mathematical Projects and Partnerships (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Discussion and analysis of teaching techniques, peer classroom observations; guided group and self analysis of group projects developing and studying innovative mathematical projects for middle and high school students. (Concurrent involvement in middle/high school projects required.)

MATH 729 Communicating Mathematics (Units: 3)
Prerequisite: Formal commitment to write an MA thesis or expository paper.
Practice of written and oral communication of advanced and research mathematics: prepare research article or monograph, design research poster, prepare and present short and long research talks, write grant proposal.

MATH 730 Theory of Functions of a Complex Variable (Units: 3)
Prerequisites: MATH 470 with a grade of C or better, and consent of instructor.
Elementary topology of the Euclidean plane, analytic functions, power series, conformal mapping, Cauchy integral formula, residue theorems, power series, Laurent series, analytic continuation, normal families and Riemann mapping theorem.

MATH 735 Modern Algebra II (Units: 3)
Prerequisite: MATH 335 with a grade of C or better.
Group actions, conjugacy classes, Sylow’s Theorem. Rings, modules, vector spaces, and finitely generated modules over PIDs. Field extensions and finite fields.
(MATH 735/MATH 435 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 741 Probability and Statistics II (Units: 3)
Prerequisite: MATH 440 (formerly MATH 340) with a grade of C or better.
Sampling distributions, estimation of parameters, hypothesis testing, goodness-of-fit tests, linear regression, and selected non-parametric methods.
(MATH 741/MATH 441 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
MATH 748 Theory and Applications of Statistical and Machine Learning (Units: 3)
Prerequisites: MATH 448 and MATH 441, each with a grade of C or better; or consent of instructor.
Study of the fundamental concepts of statistical and machine learning theory.

MATH 770 Real Analysis II - Several Variables (Units: 3)
Prerequisite: MATH 370 with a grade of C or better, or consent of instructor.
Sequences and series of functions, uniform convergence, real-analytic functions, metric spaces, open and closed sets, compact and connected sets, continuous functions.
(MATH 770/MATH 470 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 771 Introduction to Fourier and Wavelet Analysis (Units: 3)
Prerequisite for MATH 771: Graduate standing; MATH 370 with a grade of C or better, or consent of instructor.
Prerequisite for MATH 471: MATH 370 with a grade of C or better.
Sequences and series of functions, modes of convergence, Fourier series and integrals, wavelet analysis.
(MATH 771/MATH 471 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 777 Partial Differential Equations (Units: 3)
Prerequisite: MATH 376 with a grade of C or better.
Study of partial differential equations in rectangular and polar coordinates. Initial and boundary value problems for the heat equation and wave equation. Study of Fourier series, Bessel series, harmonic functions and Fourier transforms.
(MATH 777/MATH 477 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

MATH 814 Seminar on Modern Math Methods in Molecular Biology (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Seminar on research in computational biology. Introduction to tools from pure and applied mathematics. Approaches to problems through common computational techniques. Topics to include DNA structure and effects of internal and external agents. Intended for students from a variety of disciplines such as math, computer science, biology and biochemistry.

MATH 850 Algebra (Units: 3)
Prerequisite: MATH 435/MATH 735 with a grade of C or better, or consent of instructor.
Rings and modules; further material is selected from such topics as Wedderburn theory, Noetherian ring theory, field theory, and general algebraic systems.

MATH 870 Computational Discrete Geometry (Units: 3)
Prerequisites: CSC 210, CSC 230, MATH 325, or consent of instructor.
Comprehensive overview of basic topics in computational discrete geometry: generating functions, complexity theory, convex hull, nearest-neighbor problems, efficient algorithms, etc.
(This course is offered as MATH 870 and CSC 870. Students may not repeat the course under an alternate prefix.)

MATH 881 Selected Topics in Combinatorics (Units: 3)
Prerequisites: Graduate standing; MATH 301GW and MATH 335; or consent of instructor.
Review of fundamental combinatorial objects, addressing questions of existence, structure, and enumeration, then treating a well-established area of combinatorics in detail. May be repeated once, as topics vary.
[Formerly a topic under MATH 890]

MATH 882 Advanced Number Theory (Units: 3)
Prerequisites: MATH 310, MATH 335, MATH 370, or consent of instructor.
Topics in computational, analytic, and algebraic number theory, including recognition of primes, modern methods of factorization, partitions, modular forms, elliptic curves, class numbers and quadratic fields. May be repeated once, as topics vary. [Formerly a topic under MATH 890]

MATH 883 Polytopes and Varieties (Units: 3)
Prerequisites: Either MATH 435 with a grade of C or better and consent of instructor, or MATH 735 or MATH 850 with a grade of C or better.
Central concepts in polytope theory and simplicial complexes, elements of affine and projective algebraic geometry, commutative algebra of special ideals and related effective methods, applications to one of the following: discrete geometry, toric varieties, algebraic statistics, polytope theory, optimization. May be repeated once, as topics vary. [Formerly a topic under MATH 890]

MATH 884 Algebraic Geometry (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of current topics in the field of algebraic geometry. May be repeated once, as topics vary. [Formerly a topic under MATH 890]

MATH 885 Advanced Frame Theory and Its Applications (Units: 3)
Prerequisites: MATH 471 or MATH 470, and MATH 725 or MATH 770, or consent of instructor.
Frames in Hilbert spaces, finite frame theory, frames vs. Riesz bases, particular frames structures including frames of translates, Gabor frames, wavelet frames, frame multi-resolution, compressed sensing and sampling theory, and applications. [Formerly a topic under MATH 890]

MATH 886 Discrete Geometry (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theory of polytopes. Counting lattice points in polytopes. Unimodular triangulations and unimodular coverings. May be repeated once, as topics vary. [Formerly a topic under MATH 890]

MATH 887 Advanced Analysis on Manifolds (Units: 3)
Prerequisite: MATH 710 or consent of the instructor; math major.
Differentiable maps, inverse and implicit function theorems; n-dimensional Riemann integral, change of variables in multiple integrals, manifolds, differential forms, n-dimensional version of Stokes theorem, and abstract differentiable manifolds. May be repeated once, as topics vary. [Formerly MATH 890-topic course]
MATH 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered MATH 898 (or in some cases, MATH 890 - see program's graduate advisor for further information). (CR/NC, RP)

MATH 898 Master's Thesis (Units: 3)
Prerequisites: Consent of instructor and graduate adviser; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

MATH 899 Independent Study (Units: 1-3)
Prerequisite: Approval of the department and consent of the instructor.

Special study of a particular problem under the direction of a member of the department. The student must present a written report of the work accomplished to the staff of the department. May be repeated.
Middle East & Islamic Studies (MEIS)

MEIS 260 Turkish Cultures and Identities (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of the instructor.
Exploration of major developments in the history of Turkic communities around the globe from the rise of the Ottoman Empire to the present. Topics include religion, politics, literature, arts, traditions and customs.
Course Attributes:
  
  • C2: Humanities
  • Global Perspectives

MEIS 290 Introduction to Turkish Literature in Translation (Units: 3)
Study of Turkish poetry, short stories, and novels in English translation.
Course Attributes:
  
  • C3: Humanities: Literature
  • Global Perspectives

MEIS 300 Foundations in Middle East and Islamic Studies (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introductory, interdisciplinary course on the cultures, politics, and histories of the Middle East, North Africa, and other Muslim societies.
Course Attributes:
  
  • E1: Lifelong Learning Develop
  • UD-D: Social Sciences
  • Global Perspectives

MEIS 301 Islam: Interpretation and Practice (Units: 3)
Prerequisite: Upper division standing.
Introduction into the origin, spread, and early writings of Islam, and an overview of the diversity of contemporary Islamic practice around the globe.

MEIS 402 Arab Cinema (Units: 3)
Prerequisites: Upper division standing; CINE major or minor, or Middle East and Islamic Studies minor; or consent of instructor.
Arab history, themes, motifs, aesthetics and cultural traditions. (This course is offered as CINE 402 and MEIS 402. Students may not repeat the course under an alternate prefix.)

MEIS 431 Constructing Kurdistan (Units: 4)
Prerequisites: Upper division standing; PLSI 250 or PLSI 410 or HIST 605 or I R 323 or I R 324 or MEIS 300; or consent of instructor.
Examines Kurdish nation- and state-building efforts in Iraq and Turkey in the 20th and early centuries. Includes introduction to theories on nationalism, state formation, social movements, and ethnic conflict. (This course is offered as PLSI 431 and MEIS 431. Students may not repeat the course under an alternate prefix.)
Course Attributes:
  
  • Global Perspectives

MEIS 433 Model Arab League (Units: 4)
Prerequisites: Upper division standing; ENG 214, and MEIS 300 or I R 324 or PLSI 410; or consent of instructor.
Seminar focusing on select countries in the Arab world, which students represent at delegates at regional Model Arab League (MAL) conferences. Preparation of case study papers, policy briefs and MAL resolutions for various councils at the MAL. Training in parliamentary procedure and public speaking. May be repeated for a total of 8 units. (This course is offered as I R 433 and MEIS 433. Students may not repeat the course under an alternate prefix.)

MEIS 685 Projects in Teaching MEIS (Units: 1-3)
Prerequisite: A current matriculated student in good standing, who has already completed the regular instructionally related class, or its equivalent, with a grade of B or better, for which the student will function as an aide.
Students work as teaching assistants to instructors and receive training in teaching Middle East and Islamic Studies. Responsibilities include working with supervising faculty, assisting in preparing course material, tutoring students, and conducting small group discussions in class. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) number 685 regardless of discipline.)

MEIS 699 Independent Study (Units: 1-3)
Prerequisites: Minimum overall GPA 3.0 and consent of the supervising faculty member and the MEIS director.
Study is planned, developed and completed under the direction of a member of the MEIS advisor.
Modern Greek Studies (MGS)

MGS 150 Modern Greek I (Units: 4)
Modern (demotic) Greek for beginners emphasizing oral expression, listening comprehension, reading and writing. Grammar introduced in context of readings.
Course Attributes:
• C2: Humanities
• Global Perspectives

MGS 151 Modern Greek II (Units: 4)
Prerequisite: MGS 150 or equivalent.
Continuation of first semester Modern Greek.
Course Attributes:
• Global Perspectives

MGS 152 Modern Greek Conversation (Units: 3)
Prerequisite: MGS 150 or consent of instructor.
Emphasizing aural-oral skills, provides practical contexts for conversational modern Greek derived from instructional videos, DVDs, and on-line tutorials. May be repeated for a maximum of 6 units toward degree credit.
Course Attributes:
• Global Perspectives

MGS 316 Contemporary Culture of Greece (Units: 3)
Prerequisite: ENG 214 or equivalent.
The culture of contemporary Greece within the framework of the social sciences, particularly anthropology and folklore. (This course is offered as MGS 316 and ANTH 316. Students may not repeat the course under an alternate prefix.)

MGS 350 Greece and the Balkans (Units: 3)
Prerequisite: ENG 214 or equivalent.
History of Greece and the Balkans from the Fall of Constantinople to the present. (This course is offered as MGS 350 and HIST 350. Students may not repeat the course under an alternate prefix.)

MGS 351 Venetians and Ottomans in the Eastern Mediterranean and Greece (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of the Republic of Venice in conjunction with the Ottoman Empire in their interactions in the eastern Mediterranean. (This course is offered as HIST 351 and MGS 351. Students may not repeat the course under an alternate prefix.)

MGS 352 From Glory to Debt: Greece from the 19th to the 21st Centuries (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of political, social, and economic crises and transformations sustained by the Modern Greek State from 1830 to the present. (This course is offered as HIST 352 and MGS 352. Students may not repeat the course under an alternate prefix.)

MGS 365 Modern Greek III (Units: 4)
Prerequisite: MGS 151 or equivalent.
Continuation of second semester Modern Greek. Accelerated emphasis on conversation, grammar and composition.

MGS 378 Athens (Units: 3)
Prerequisite: ENG 214.
Exploration of the city of Athens from the ancient to the modern periods, including contemporary times; focus on key moments in the city's multi-layered history as well as enduring cultural values and global impact. (This course is offered as HUM 378 and MGS 378. Students may not repeat the course under an alternate prefix.)

MGS 380 British and American Travellers to Greece (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of the genre of travel writing to Greece in British and American letters from the Romantic to the postmodern periods. Authors include Byron, Wilde, Woolf, and Miller. (This course is offered as MGS 380 and ENG 380. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

MGS 397 Greek American Literature (Units: 3)
Prerequisite: ENG 114 or equivalent.
A survey of the major Greek American authors and poets of the 20th century. (This course is offered as MGS 397 and ENG 398. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

MGS 452 Forster, Durrell, and Cavafy (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of English novelists and travel writers E. M. Forster and Lawrence Durrell and of their connection to Alexandrian poet C. P. Cavafy. Discussion includes their collective interest in Alexandria as an alternative literary and ideological topos. (This course is offered as MGS 452, CWL 452, and ENG 452. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

MGS 465 Modern Greek Poetry in Comparative Perspective (Units: 3)
Prerequisite: ENG 214 or equivalent.
Survey of Greece's prominent modern poets in comparison with major Anglo-American and European poets. Poets to be studied can include Cavafy, Seferis, Elytis, Mastoraki, Yeats, Eliot, Pound, and Rich. (This course is offered as MGS 465, CWL 465, and C W 465. Students may not repeat the course under an alternate prefix.)
MGS 470 Modern Greek IV (Units: 4)
Prerequisite: MGS 365 or equivalent.
Continuation of third semester Modern Greek. Conversation, grammar and composition writing. Reading and translating of representative literary and other texts.

MGS 497 Modern Greek Literature (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to Greece’s major modernist and postmodernist writers. Exploration of experimental writing techniques using 20th Century literature.
(This course is offered as MGS 497 and CW 497. Students may not repeat the course under an alternate prefix.)

MGS 510 The Byzantine Empire (Units: 3)
Prerequisite: ENG 214 or equivalent.
Political, social, economic, cultural history of Byzantine Empire from 7th to 15th centuries A.D.; relations of Byzantium with Germanic, Slavic, Arabic, and Turkic-speaking neighbors.
(This course is offered as MGS 510, CLAS 510, HIST 326. Students may not repeat the course under an alternate prefix.)

MGS 555 Introduction to Modern Greek Literary Texts (Units: 3)
Prerequisite: MGS 470 or equivalent.
Reading and translation of selected texts in modern Greek literature.
Modern Greek grammar for upper division students.

MGS 699 Independent Study (Units: 1-4)
Prerequisite: Upper division standing or consent of instructor.
Supervised intensive, individual undergraduate work, largely of a research nature, in Modern Greek Studies, e.g., language, literature, folklore and/or culture. Culminates in a paper.
Modern Languages and Literatures (MLL)

MLL 325 Linguistics for Foreign Languages (Units: 3)
Prerequisite: Upper division student of foreign languages or consent of instructor.

Introduction to modern linguistic theories and methods for application to specific foreign languages. Background for foreign language study. [Formerly F L 325]

MLL 400 Introduction to Interpreting (Units: 3)
Prerequisite: Passing score on SF State Bilingual Entrance Exam, (or the federal written exam) and admission to the program.

Introduction to English/Spanish skills required to pass the state interpreter examinations in the field of legal/court interpretation and the medical evaluation system of workers’ compensation. Focus on interpreting theory, the fundamentals of simultaneous, consecutive and sight interpretation, and vocabulary development. [Formerly F L 400]

MLL 400GW Reading and Analysis of Cultural Texts-GWAR (Units: 3)
Prerequisites: ENG 214 with a grade of C- or better; admission to Foreign Language major or consent of instructor.

Introduction to representative cultural texts associated with the languages taught in the Department of Foreign Languages and Literatures. All written work will be done in English. (ABC/NC grading only) [Formerly F L 400GW]

Course Attributes:
- Graduation Writing Assessment

MLL 401 Sight Translation (Units: 3)
Prerequisite: MLL 400 [formerly F L 400].

Understanding legal and other written documents commonly used in civil and criminal courts and translating these documents orally in the target language in a public situation. Focus on legal vocabulary development in both Spanish and English using legal documents from a variety of Spanish-speaking countries; literary, current events, tone, proper register, delivery and accuracy. [Formerly F L 401]

MLL 403 Consecutive Interpretation I (Units: 3)
Prerequisite: MLL 400 [formerly F L 400].

Practice in the consecutive mode of Spanish/English interpretation in legal proceedings such as arraignments, pretrial hearings, depositions, trials and administrative hearings. Develop memory, acquire relevant courtroom terminology, develop familiarity with idiomatic expressions and slang used by Spanish-speaking witnesses and defendants, and discuss ethical issues and courtroom protocol. Use of courtroom scripts and tapes. [Formerly F L 403]

MLL 405 Consecutive Interpretation II (Units: 3)
Prerequisite: MLL 403 [formerly F L 403].

Advanced practice in the consecutive mode of interpretation in legal proceedings including pretrial hearings, preliminary examinations, motions and trials in state and federal courts, depositions, medical/psychiatric examinations and administrative hearings. Emphasis on extended recall, communicating nuances, maintaining register and equanimity in more demanding situations. In-class practice sessions are designed to improve memory, learn note-taking when appropriate and acquire relevant terminology. [Formerly F L 405]

MLL 407 Simultaneous Interpretation I (Units: 3)
Prerequisite: MLL 400 [formerly F L 400].

Development of simultaneous interpretation skills from English to Spanish as practiced in legal proceedings. Students practice with tape-recorded legal texts at a slow to medium rate of speech; develop skills in shadowing and simultaneous interpretation of legal texts (English to Spanish), increasing from 100 to 140 words per minute. Emphasis on continued acquisition of general legal vocabulary and ways to cope with unknown terms, memory lapses and loss of concentration. [Formerly F L 407]

MLL 409 Simultaneous Interpretation II (Units: 3)
Prerequisite: MLL 407 [formerly F L 407].

Practice in simultaneous interpretation skills from English into Spanish in more complex legal proceedings than in FL 407. Students practice with tape-recorded legal texts at a moderate to fast rate of speech (140 words per minute and faster). Material used contains testimony of expert witnesses, legal motions, jury instructions, and other more complex material, and requires acquisition of specialized terminology such as forensic pathology. [Formerly F L 409]

MLL 599 Internship in Foreign Languages (Units: 1-4)
Prerequisites: Minimum of 12 upper division units in a foreign language or equivalent foreign language proficiency and consent of instructor.

Supervised internship in a setting in which a foreign language is used, integrated with relevant academic research. (CR/NC grading only) [Formerly F L 599]

MLL 700 Introduction to Academic Writing and Research Methodology (Units: 3)
Prerequisite: Admission to a foreign language M.A. or literary studies program or consent of instructor.

Introduction to graduate-level academic writing and research. Taught in English. [Formerly F L 700]

MLL 701 Seminar in Academic Writing and Research Methodology (Units: 3)
Prerequisite: Graduate standing in an Foreign Language program or consent of instructor.

Seminar in research methods and academic writing for graduate students in Foreign Languages and Literatures. [Formerly F L 701]

MLL 720 Transcultural Encounters: Topics in Literary Theory for East Asian Studies (Units: 3)
Prerequisite: Graduate standing.

Introduction to variety of critical and theoretical concepts that have shaped production and reception of Chinese and Japanese literary and cultural texts in the twentieth and twenty-first centuries. Course varies between national and transnational perspective and employs comparative approach. [Formerly F L 720]

MLL 721 Topics in East Asian Linguistics (Units: 3)
Prerequisites: Graduate standing; MLL 325; or consent of instructor.

Examination of current issues in Chinese and Japanese linguistics and research methodology, including syllable structure, sound change, tonal evolution, standardization, linguistic purism, and diglossia, among others. [Formerly F L 721]
MLL 750 Curriculum and Instruction I: Foreign Languages (Units: 3)
Prerequisite: Admission to the Single Subject Credential program or consent of instructor.

Principles and theory of teaching foreign languages at the secondary school level, including planning of content and instruction with consideration of student learning and state and national standards. [Formerly F L 750]

MLL 751 Curriculum and Instruction II: Foreign Languages (Units: 3)
Prerequisite: Satisfactory completion of MLL 750 or consent of instructor.

Must be taken concurrently with S ED 660, Student Teaching. Principles and practical experience in the teaching of foreign languages at the secondary school level, including selection and use of instructional technology, evaluation techniques, assessment, and reflective practice. [Formerly F L 751]

MLL 761 Sino-Japanese Encounters 19th/20th Centuries: Imagining the Other Through Literature, Film, and Art (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Exploration of how China and Japan have been represented and imagined by their respective other through literature, art, and cinema, from the late 19th century to the present. Focus on well-known writers, intellectuals, and filmmakers whose work was influenced by an encounter with the culture other. Study of key topics that have resulted from or accompanied these encounters such as modernism, colonialism, imperialism, communism, post-colonialism and nostalgia. [Formerly F L 761]

MLL 780 Topics in Romance and German Literature (Units: 3)
Prerequisite: Graduate standing in the Romance and German Languages and Literatures program or consent of instructor.

Graduate seminar covering literary topics European literature. Topics to be specified in Class Schedule. May be repeated when topics vary. [Formerly F L 780]

MLL 799 Internship in Foreign Languages (Units: 1-4)
Prerequisites: Graduate standing in a foreign language or equivalent foreign language proficiency and consent of instructor.

Supervised internship in a setting in which a foreign language is used, integrated with relevant graduate-level academic research. (CR/NC grading only) [Formerly F L 799]

MLL 803 Technology in Foreign Language Education (Units: 3)
Prerequisite: Graduate standing.

Introduction to principles and practices concerning the use of technology in foreign language education. Focus on the connection between Second Language Acquisition theories and the implementation of current Internet and multimedia technologies. [Formerly F L 803]

MLL 808 Second Language Acquisition (Units: 3)
Prerequisite: Graduate standing.

Survey of L2 acquisition research and methodologies. Examination of major hypotheses about complex variables underlying second L2 and perspectives that form L2 acquisition theories. Selected cases illustrating the relation of L2 acquisition studies to L2 pedagogy. [Formerly F L 808]
Museum Studies (M S)

M S 201 Introduction to the History and Development of Museums (Units: 3)
Introduction to basic theory and organization of museums including the history of museum development, the role of museums in society, museums as places of preservation and education, and the relationship between museums and the communities they serve. (Plus-minus letter grade only)

M S 202 Introduction to Museum Exhibits (Units: 3)
Examination of basics of museum exhibits, including key elements of how exhibits are planned and developed, their purpose, how they are connected to public programming, and the role of visitors. Contains an exhibit viewing component. (Plus-minus letter grade only)

Course Attributes:
- C1: Arts

M S 310 Introduction to Museum Education Methods and Community Engagement (Units: 3)
Prerequisites: Upper division standing; M S 201 and M S 202, with a grade of C or better.

Introduction to the important role museums play in society, including preservation and education. Main content themes include: the history of the paradigm shift from collecting institutions to public, educational institutions; public programs serving diverse audiences; object-based learning; museum-school services; community outreach; visitor studies; and assessment. (Plus-minus letter grade only)

M S 605 San Francisco Bay Area Museums: Behind the Scenes (Units: 3)
Prerequisites: ENG 214 and consent of instructor.

Study of San Francisco Bay Area museums: their history, organization, collections stewardship, exhibits, public programs, and mission. Includes structured "behind-the-scenes" tours of local museums.

M S 680 Cultural Heritage Preservation (Units: 3)
Prerequisite: ENG 214 or equivalent.

Archaeological and architectural conservation: history of U.S. legislation and implementation, international organizations, major national and international projects, philosophy of preservation strategies, conservation ethic.

M S 681 Museum Studies Lab (Units: 3)
Prerequisites: Upper division standing; declared minor in Museum Studies; M S 201 and M S 202, with grades of C or better.

Lab course with lecture and practicum activities in selected museum functions in SF State’s Global Museum, using the museum’s interdisciplinary teaching and research collections. (Plus-minus letter grade only)

M S 682 Capstone Practicum (Units: 3)
Prerequisites: Upper division standing; declared minor in Museum Studies; M S 681 with a grade of C or better.

Practicum at a pre-approved, off-campus museum site, in museum collections management and registration, exhibition design, interpretation, gallery preparation and installation, education and public programming, and gallery management or administration, under the supervision of a professional museum employee and SF State instructor.

M S 700 History and Organization of Museums (Units: 3)
Prerequisite: Classified graduate standing and/or consent of instructor.

Major museology facets, including analysis of diverse museums, career options, ethics, laws, funding, and literature. Museum operation and community-museum relationships through on-site observations, interviews, and research.

M S 701 Museum Theory and Practice (Units: 2)
Prerequisites: Upper division undergraduate or classified graduate standing; completion of M S 700; or consent of instructor.

Exploration of recent theory in museum studies, focusing on the theoretical approaches supplying insight into developing useful strategies in museum practice. Analysis of the museum’s function, management, and place in society, including research on practice, history, and outlook.

M S 702 Writing for the Museum Profession (Units: 3)
Prerequisite: Graduate standing in Museum Studies or consent of instructor.

Examination of three major areas of writing for the museum profession: communication with visitors; technical writing for interpretation, outreach, programming, and documentation; and writing in an academic context. (Plus-minus letter grade only)

M S 707 Perspectives on Museums: A Professional Forum (Unit: 1)
Prerequisites: Upper division undergraduate or classified graduate standing; museum studies major or consent of instructor.

Guest speakers from the museum community to provide graduate students with perspectives and discussion on current practices and trends in the museum work place.

M S 708 Museums: Global Operations (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.

Examination of museum efforts to incorporate global perspectives into their activities. Topics include analyses of international partnerships and globally-focused museum activities, the challenges of such work, and basic resources on international museum efforts.

M S 710 Museum Education and School Outreach (Units: 3)
Prerequisite: Classified graduate standing and consent of instructor.

Overview and evaluation of educational services in museums, including the planning and implementation of educational programs and establishing a liaison with public schools. Designed for graduate students, museum professionals, and public school teachers. (Plus-minus letter grade only) [CSL may be available]

M S 715 Interpretation in Museums and Heritage Organizations (Units: 3)
Prerequisites: Classified graduate standing and consent of instructor.

Analysis of the methods and styles of interpretation of museum collections and heritage facilities (e.g., historic sites, historic houses, landmarks, open-air facilities). Development and improvement of interpretive programs.

M S 720 Museum Curatorship and Collecting (Units: 3)
Prerequisite: Classified graduate standing.

Analysis of the duties of museum curators, including academic research, collections documentation, collections development, donor cultivation, ethical collection practices, exhibition concept development, and the curator’s position within the institution and community. May be repeated for a total of 6 units. (Plus-minus letter grade only)
M S 730 Museum Exhibition Planning and Design (Units: 3)
Prerequisite: Classified graduate standing.
Theory and practical experience in the development and installation of exhibitions in museums and related exhibition spaces in libraries or similar institutions, including collaborations between such entities. May be repeated for a total of 6 units. (Plus-minus letter grade only)

M S 740 Museum Conservation and Restoration (Unit: 1)
Prerequisite: Classified graduate standing in M S.
Theory and practice in museum conservation and restoration, using the Sutro Egyptian and permanent collections. Analysis of museum artifacts.

M S 760 Preservation of Natural History and Cultural Collections (Units: 3)
Prerequisite: Classified graduate standing or senior with consent of instructor.
Analysis of major types of natural history specimens, their properties, potential hazards facing them, and appropriate conservation techniques.

M S 790 Archives Management and Preservation (Units: 3)
Prerequisite: Classified graduate standing or senior with consent of instructor.
History, principles, methodologies, and practical administration of non-electronic archives (original documents, maps, photographic materials, manuscripts, diaries, albums, government records); practical, hands-on experience with preservation methods. (Plus-minus letter grade only)

M S 791 Integrated Pest Management in Heritage Facilities (Unit: 1)
Prerequisite: Museum Studies major or consent of instructor.
Development of plans to prevent pest infestations in museums and related heritage facilities. Overview of current methods of chemical and non-chemical methods of control, legacy of past chemical practices in museums, and OSHA regulations for employee safety.

M S 792 Museum Security Systems (Unit: 1)
Prerequisite: Museum Studies major or current museum employee.
Analysis and implementation of institutional procedures and new technology for theft prevention and mitigation in museums.

M S 793 Museum Facilities Management (Unit: 1)
Prerequisite: Museum Studies major or consent of instructor.
Analysis of building and grounds issues; risk management; emergency/disaster preparedness; fire suppression technology; HVAC systems; new construction materials.

M S 794 Museum Collections Management and Registration (Units: 3)
Prerequisite: Classified graduate standing in museum studies.
Tasks performed by museum registrars: documentation of collections, loan procedures, collections storage, museum security, disaster preparedness, traveling exhibitions and customs, insurance, and development of collections management policies.

M S 795 NAGPRA for Museum Registrars and Curators (Units: 2)
Prerequisite: Classified graduate standing and consent of instructor.
For museum registrars and curators, analysis of legal compliance and practical implementation of the Native American Graves Protection and Repatriation Act. (Plus-minus letter grade only)

M S 800 Museum Management, Law, and Ethics (Units: 3)
Prerequisite: Classified graduate standing.
Legal issues of concern to museum professionals and artists; laws governing acquisition of art objects, authentication, taxes, liability, censorship, artists’ rights, copyright, museum organization, and labor relations. (Plus-minus letter grade only)

M S 810 Museums in the Digital Age (Units: 3)
Prerequisite: Classified graduate standing or consent of instructor.
Use and role of digital media and information technology in museums. Development of practical and theoretical skill set for the management of digital assets for exhibit development, education, public relations and marketing, collections preservation, and digitally-mediated outreach.

M S 811 Digital Preservation for Museums and Cultural Heritage Institutions (Units: 3)
Prerequisite: Classified graduate standing or consent of instructor.
Survey and applied practicum of digital technologies used in museums and cultural heritage institutions. Exploration of the relationship between computation and the humanities; and issues facing cultural institutions in the 21st century, such as open source programs, the organization and preservation of existing collections, and real-world examples in the field of digital cultural management. (Plus-minus letter grade only)

M S 823 Curation and Cinema (Units: 3)
Prerequisite: Restricted to students in M.A. or M.F.A. Cinema program or Museum Studies M.A. program.
Examination of curatorial practice and the role of curators in contemporary culture; the relation between moving images and contemporary art practices; projection, display and exhibition of time-based media in and beyond film events and art institutions. (Plus-minus letter grade only)
(This course is offered as CINE 823 and M S 823. Students may not repeat the course under an alternate prefix.)

M S 830 Museum Governance (Units: 3)
Prerequisite: Classified graduate standing or consent of instructor.
Analysis of governance in museums, including: trusteeship, board issues, roles of director and senior management, governance conflicts, mission statements, use of advisory committees and support groups, collections issues, planning, and recent controversies. (Plus-minus letter grade only)

M S 840 Museums and Cultural Property (Units: 3)
Prerequisite: Classified graduate standing or consent of instructor.
Examination of legal and ethical issues concerning cultural property in museums: museum acquisition policies; international art/antiquities trade; auction houses; WWII-era looting; repatriation; ownership dispute resolution; relationships with descendant communities. (Plus-minus letter grade only)

M S 845 Art Law (Units: 2)
Prerequisite: Museum Studies major or consent of instructor.
Artists’ expressive, economic, and moral rights; intellectual property issues; title and theft; art merchants and authenticity; museum acquisitions; IRS regulations pertaining to museums contracts and documentation in museums.
M S 850 Museum Volunteer Management and Membership (Units: 3)
Prerequisite: Classified graduate standing or consent of instructor.
Development and management of volunteer and membership programs for museums and heritage organizations. Volunteer recruitment/retention, sound practices for producing and managing membership programs, and training and daily volunteer operations in the museum and heritage environment.

M S 860 Fundraising in Museums (Units: 3)
Prerequisite: Classified graduate standing or consent of instructor.
Examination of fundraising in museums, budget building, budget cycle, legal and tax issues of fundraising, as well as specific fundraising methods (gifts, planned giving, bequests, endowments, e-commerce, grants, contracts). (Plus-minus letter grade only)

M S 865 Museums beyond ADA: Universal Access & Museopathy (Units: 3)
Prerequisite: Classified graduate standing and consent of instructor.
Strategies for successful incorporation of universal access and universal design principles to museum operations. Latest research on new uses for museum collections to improve health and social engagement (museopathy), for visitors and confined populations with Alzheimer’s, autism, cancer, sensory loss.

M S 870 Museum Audiences, Visitors, and Communities (Units: 3)
Prerequisite: Classified graduate standing and consent of instructor.
Analysis of museum visitors (visitor studies) and non-visitors (audience research) in the context of museum communities. Methodology and applications of visitor/audience research to improve museum operations and exhibitions.

M S 875 Public Relations and Marketing for Museums (Units: 3)
Prerequisite: Classified graduate standing and consent of instructor.
Development of and best practices in strategic marketing, earned income operations, and public relations for museums and heritage organizations.

M S 880 Museum Internship (Units: 3)
Prerequisites: M S 700 and classified graduate standing in Museum Studies.
Practicum in collections management, exhibition design, fundraising management, publishing, curation, educational programming, conservation under the supervision of a professional museum employee and SF State instructor. May be repeated for a total of 6 units.

M S 885 Professional Conferences and Workshops (Units: 1-3)
Prerequisite: Consent of instructor.
Attendance, participation, and evaluation at professional conferences, workshops, or short courses offered by museums, professional associations, or other recognized institutions. Prior approval by Museum Studies Program is mandatory. May be repeated for a total of 3 units. (CR/NC grading only)

M S 888 Project Management for Museums (Units: 1-2)
Prerequisites: MS Majors only; Prior enrollment in M S 720, M S 850; or instructor consent.
Under faculty guidance, development, logistics, budgeting, and time management for museum exhibits, catalogue publishing, conferences/sessions for museum professionals, or special events for schools/general public. May be repeated for a total of 3 units for the degree credit.

M S 894 Creative Work Project (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Original creative work project which must be developed with the approval of the Museum Studies program. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC; RP grading only)

M S 897 Directed Thesis Advising and Support (Units: 3)
Prerequisite: Graduate standing.
Directed advising and support for students writing theses or creative works. May be taken before enrollment in M S 894 or M S 898. Once students have taken M S 894 or M S 898 they must take M S 897 every Spring semester until they finish the degree. (CR/NC grading only)

M S 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies; and recommendation of major adviser. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)
Music (MUS)

MUS 120 Basic Music I (Units: 3)
Fundamentals of music applied through development of basic skills in music reading, writing, listening, and singing or playing selected instruments. Open to all students without prerequisite. Classwork, 2 units; activity, 1 unit. Topics to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary. Extra fee may be required.
Course Attributes:

• C1: Arts

MUS 122 Basic Music I: Piano (Units: 3)
Open to all students without prerequisites. Development of basic skills in music fundamentals and piano. Classwork, 2 units; activity, 1 unit. Extra fee required. [Formerly a topic under MUS 120]
(This course is offered as MUS 122 and TH A 122. Students may not repeat the course under an alternate prefix.)
Course Attributes:

• C1: Arts

MUS 130 Rudiments of Music Theory (Units: 3)
Concurrent enrollment in a basic piano class recommended. Comprehensive review and drill of music fundamentals. Development of aural skills; written and analytical knowledge of simple harmony. (This course is offered as MUS 130 and TH A 131. Students may not repeat the course under an alternate prefix.)

MUS 150 Concert Music (Unit: 0)
Audience participation at designated on-campus concerts scheduled by the Department of Music. Required each semester of music majors.

MUS 201 Class Piano I (Unit: 1)
Prerequisites: Satisfactory performance audition; ability to read treble and bass clefs, music major or minor; priority given to Music majors, others by approval of department.
Instruction includes techniques, repertoire, and keyboard harmony. (Plus-minus letter grade only)

MUS 202 Class Piano II (Unit: 1)
Prerequisites: Satisfactory performance audition; MUS 201 or equivalent. MUS 202 is normally taken concurrently with MUS 232. Priority given to Music majors.
Laboratory. (Plus-minus letter grade only)

MUS 203 Class Piano III (Unit: 1)
Prerequisites: Satisfactory performance audition, MUS 202 or equivalent. MUS 203 is normally taken concurrently with MUS 233. Priority given to Music majors.
Laboratory. (Plus-minus letter grade only)

MUS 206 Beginning Jazz/Pop Piano (Unit: 1)
Introduction to jazz and popular piano performance: left and right-hand chord voicings, right hand improvisation, and rhythmic comping in a variety of stylistic idioms. May be repeated for a total of 3 units. (This course is offered as MUS 206 and TH A 206. Students may not repeat the course under an alternate prefix.)

MUS 211 Class Voice I (Unit: 1)
Prerequisites: Major/minor in music (priority); major in lyric theatre; others by approval of department; ability to read music.
Foundational techniques in singing, tone production, musicianship, and interpretation. Laboratory.

MUS 212 Class Voice II (Unit: 1)
Prerequisites: Major and minor in music (priority); major in lyric theatre; others by approval of department.
Continuation of MUS 211: foundational techniques in singing, tone production, musicianship, and interpretation. Laboratory. May be repeated for credit.

MUS 221 Fundamentals of Ear Training and Musicianship I (Units: 2)
Prerequisites: Satisfactory performance audition; knowledge of written scales, key signatures, rhythms, intervals, and triads; ability to sing scales.
Ear training and sight singing. Melodic, rhythmic, and harmonic dictation. Laboratory.
(This course is offered as MUS 221 and TH A 221. Students may not repeat the course under an alternate prefix.)

MUS 222 Fundamentals of Ear Training and Musicianship II (Units: 2)
Prerequisites: Satisfactory performance audition; MUS 221 or equivalent; concurrent enrollment advised in MUS 232; priority given to music majors.
Laboratory. (Plus-minus letter grade only)

MUS 223 Fundamentals of Ear Training and Musicianship III (Units: 2)
Prerequisites: Restricted to music majors and minors; satisfactory performance audition; MUS 222 or equivalent.
Laboratory. (Plus-minus letter grade only)

MUS 224 Ear Training and Musicianship IV (Unit: 1)
Prerequisite: MUS 223 or consent of instructor.
Sight-reading, keyboard harmony and figured bass, harmonic analysis, ear training, and harmonic and rhythmic dictation.

MUS 230 Music Growth and Development in Childhood (Units: 3)
Development of fundamentals and principles for selecting, evaluating, performing, and demonstrating music materials for children; the place of music in the child’s education. (Plus-minus letter grade only)

MUS 231 Contrapuntal Analysis and Synthesis (Units: 3)
Prerequisites: Restricted to Music majors and minors; satisfactory performance audition; MUS 130 or examination; concurrent enrollment advised in MUS 221 and class piano; non-majors with consent of instructor.
Contrapuntal form and procedures through written exercises, analysis, and composition in two to four parts based upon examples from the literature. (Plus-minus letter grade only)

MUS 232 Diatonic Analysis and Synthesis (Units: 3)
Prerequisites: Satisfactory performance audition; MUS 231; concurrent enrollment advised in MUS 222 and Class Piano; non-majors with consent of instructor.
Common practice harmonic and formal procedures through written exercises, analysis, and composition: triads, inversions, cadences, seventh chords, binary, ternary, and rondo forms based upon the literature. (Plus-minus letter grade only)
MUS 233 Chromatic Analysis and Synthesis (Units: 3)
Prerequisites: Restricted to Music majors and minors; satisfactory performance audition; MUS 231 and MUS 232; concurrent enrollment advised in MUS 223 and class piano; non-majors with consent of instructor.

Procedures found in chromatic music through written exercises, analysis, and composition, including secondary dominants, modulation, altered chords, theme-and-variations, and sonata forms based upon the literature. (Plus-minus letter grade only)

MUS 234 Modern Musicianship: Theory, Application and Ear Training I (Units: 3)
Examination of music notation, terminology, rhythm, scales and modes, key signatures and the circle of fifths, intervals, transposition, chords and chord progressions, figured bass, lead sheet notation, Roman numeral analysis and basic structures integrating active performance of all concepts.
(This course is offered as MUS 234 and TH A 234. Students may not repeat the course under an alternate prefix.)

MUS 235 Modern Musicianship: Theory, Application and Ear Training II (Units: 3)
Prerequisite: MUS 234.
Continuation of MUS 234. Examination of nondiatonic scales, advanced chords, chord inversions and voicings, chord substitutions, nonharmonic tones, lead sheet notation, Roman numeral analysis, and basic structures. Focus on the integration of written notation and active performance.
(This course is offered as MUS 235 and TH A 235. Students may not repeat the course under an alternate prefix.)

MUS 270 Improvisation (Units: 2)
Prerequisites: MUS 203 or MUS 206, MUS 233 with grades of C or better.
Emphasis on integrating fundamentals across styles and interdisciplinary practices. May be repeated upon advisement.

MUS 301 Class Piano IV (Unit: 1)
Prerequisites: MUS 203 or equivalent; priority given to music majors.
Intermediate class piano for voice, composition, instrumental, and music history majors. Laboratory. (Plus-minus letter grade only)

MUS 302 Class Piano V (Unit: 1)
Prerequisites: MUS 301 or equivalent; priority given to music majors.
Intermediate class piano. May be repeated for credit. Laboratory. (Plus-minus letter grade only)

MUS 303 Keyboard Major (Unit: 1)
Prerequisites: Restricted to Music majors; audition; concurrent enrollment in MUS 360.
Advanced individual projects in performance and literature for piano, harpsichord, organ, and fortepiano. May be repeated for a total of 8 units. (Plus-minus letter grade only)

MUS 307 The Singing Actor: Exploring Music through the Craft of Acting (Unit: 1)
Prerequisites: Upper division standing and by audition.
Exploration of song through the craft of acting, with a focus given to storytelling through the intersection of poetic structure and device and musical composition. (Plus-minus letter grade only)
(This course is offered as MUS 307 and TH A 307. Students may not repeat under alternate prefix.)

MUS 309 Singing for Self Expression I (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Basic elements of vocal technique. Analysis of individual problems and corrective vocalises. Breath control, tone production, placement, phonetics in group and individual practice and performance; special needs of self-presentation.

MUS 313 Voice Major (Unit: 1)
Prerequisites: Music and Drama majors; audition; and/or concurrent enrollment in MUS 150, MUS 394, a vocal or choral ensemble as assigned; approval of department. B.A. students must have completed lower division preparation.

Vocal study for the music degree. May be repeated for a total of 8 units for music performance majors; for other majors, may be repeated for a total of 2 units. (Plus-minus letter grade only)
(This course is offered as MUS 313 and TH A 318. Students may not repeat the course under an alternate prefix.)

MUS 335 Rehearsal and Performance Technique (Unit: 1)
Prerequisite: By audition.
In depth exploration of character psychology, social political context and musical theatrical detail necessary for a successful opera production. Principally devoted to staging and advancement of student stagecraft. May be repeated for a total of 4 units. (CR/NC grading only)

MUS 351 Class Orchestral and Band Instruments I (Unit: 1)
Prerequisites: Music majors and minors; ability to read music; others by consent of department.
Fundamentals in embouchure, fingering, articulation, breath control, and hand position. Topics to be specified in Class Schedule. May be repeated with varying content.

MUS 353 Instrumental Major (Unit: 1)
Prerequisites: Restricted to music major; consent of department; and concurrent enrollment in MUS 150 and MUS 371, MUS 372, or MUS 377 (for guitarists) as assigned.

Applied Instruction on instrument or voice. Topics to be specified in Class Schedule. May be repeated for a total of 8 units as topics vary.

MUS 360 Major Repertoire (Unit: 1)
Prerequisites: Restricted to music major; audition; and consent of department.

In-depth survey of repertoire for one instrument or voice. Topics to be specified in Class Schedule. One topic may be repeated 8 times

MUS 371 Orchestra (Unit: 1)
Prerequisite: Audition.
Major orchestral ensemble for qualified musicians. May be repeated for a total of 8 units.

MUS 372 Wind Ensemble (Unit: 1)
Prerequisite: Audition.
Major performance ensemble for woodwind, brass, and percussion players. Rehearsal and performance of a broad range of wind and percussion repertoire. Open to all students by audition. May be repeated for a total of 8 units.
MUS 373 Chamber Singers (Unit: 1)
Prerequisite: Audition.
Sacred and secular music for vocal chamber ensemble. Open to all students by audition. May be repeated for a total of 8 units.

MUS 375 Women's Chorus (Unit: 1)
Prerequisite: Audition.
Preparation and performance of repertoire for treble voices. May be repeated for a total of 8 units.

MUS 376 Opera Workshop (Unit: 1)
Prerequisite: Audition.
Preparation and performance of opera scenes or opera production. May be repeated for a total of 8 units.

MUS 377 Instrumental Ensembles (Unit: 1)
Prerequisite: Audition.
Preparation and performance of literature for specific woodwind, brass, percussion, or string ensembles. Ensemble to be specified in Class Schedule. May be repeated for a total of 8 units.

MUS 378 Chamber Music (Unit: 1)
Prerequisite: Audition.
Preparation and performance of chamber music literature by advanced students in small ensembles. May be repeated for a total of 8 units.

MUS 379 University Chorus (Unit: 1)
Prerequisite: Audition.
Sacred and secular music for large chorus, including masterworks with orchestra. Sight-reading instruction as needed for 2 units of credit. Open to all students by audition. May be repeated for a total of 8 units.

MUS 381 Men's Chorus (Unit: 1)
Prerequisite: Placement audition.
Preparation and performance of repertoire for tenor, baritone and bass voices. May be repeated for a total of 8 units.

MUS 382 Keyboard Harmony (Unit: 1)
Prerequisites: MUS 232 and MUS 303 or equivalent.
Intensive one-semester accelerated course in applied figured-bass realization, open-score reading, and transposition for piano majors. Laboratory.

MUS 383 Piano Accompaniment (Unit: 1)
Prerequisite: Audition.
Development of accompaniment skills through preparation and performance of selected vocal and instrumental literature. May be repeated once.

MUS 384 Piano Ensemble (Unit: 1)
Prerequisite: Audition.
Preparation and performance of selected works for two pianos and one piano/four hands. May be repeated.

MUS 385 Applied Accompanying (Unit: 1)
Prerequisite: MUS 383 or consent of instructor.
Practical experience in applied piano accompaniment to be attained by assignment, based on experience and level of ability, to individual studio lessons in the vocal and instrumental area or to various ensembles in music. May be repeated for a total of 8 units.

MUS 386 World Music Ensembles (Unit: 1)
Prerequisite: Audition performance on an instrument or voice.
Two to eight piece interactive performance groups drawing musical traditions: Africa, Middle East, India, Asia, Europe, Americas. Intercultural practice is encouraged. Topics to be specified in Class Schedule. May be repeated for 12 units for degree credit as topics vary.

MUS 387 Collegium Musicum: Schola Civilis (Unit: 1)
Prerequisite: Audition or consent of instructor.
Practical study of Gregorian Chant: practice in singing a varied selection of chant repertoire; perform chant in the context of a Latin Mass; development of historically informed performance style of Gregorian Chant; acquire knowledge of theoretical background to chant. May be repeated for a total of 6 units.

MUS 388 Jazz Combos (Unit: 1)
Prerequisite: Audition.
Two- to eight-piece interactive performance groups in a variety of styles, including Blues-R&B, Swing, Bop and Straight-ahead, model-free, Rock Fusion, Gospel, Afro-Cuban, Creative World, and Vocal. Topics to be specified in Class Schedule. May be repeated for a total of 12 units.

MUS 390 Jazz Band (Unit: 1)
Prerequisites: Audition; MUS 430 and MUS 440 or consent of instructor.
Eighteen to twenty piece group consisting of saxophone, trumpet, trombone, and rhythm sections; arrangement realization and improvisation in all styles. May be repeated for a total of 8 units.

MUS 391 Piano Sightreading (Unit: 1)
Prerequisite: Piano major or audition.
Broad and systematic approach to the skills needed to sightread at a reasonable speed. May be repeated for a total of 2 units.

MUS 392 Piano Performance Practicum (Unit: 1)
Prerequisite: Piano performance major or audition.
Performance in the classroom setting. Technical problems and performance practice of standard concert repertoire. May be repeated for a total of 8 units.

MUS 394 Vocal Performance Practicum (Unit: 0)
Prerequisites: Vocal performance major; must be taken concurrently with MUS 313, MUS 360, MUS 776 and/or MUS 780.
Performance in the classroom setting. Technical problems and performance practice of standard vocal repertoire. May be repeated 8 times.

MUS 396 Chamber Music Forum (Unit: 1)
Prerequisite: Concurrent enrollment in chamber music or consent of instructor.
Performance in the classroom setting. Technical problems and performance practice of chamber music repertoire. May be repeated for a total of 8 units.

MUS 398 Vocal/Jazz Modern Music (Unit: 1)
Prerequisite: Audition.
Two- to eight-piece interactive groups in a variety of styles. May be repeated for a total of 12 units. [Formerly a topic under MUS 398] (This course is offered as MUS 398 and TH A 398. Students may not repeat the course under an alternate prefix.)
MUS 399 Jazz/Modern Music Combo (Unit: 1)
Prerequisite: Audition.
Two- to eight-piece instrumental groups that perform in a variety of styles. These can include, but are not limited to, Blues-R&B, Swing, Bop and Straight-ahead, Rock Fusion, and various Latin Jazz styles. May be repeated for a total of 12 units. [Formerly a topic under MUS 388] (This course is offered as MUS 399 and TH A 399. Students may not repeat the course under an alternate prefix.)

MUS 400 Music Performance (Units: 3)
Prerequisite: Audition or consent of instructor is required to enroll in this course.
Music performance practice as it relates to a variety of genres, styles, settings, historical periods and instrumentations. Online coursework, 2 units: analysis of performance practices and settings; 1 unit: performance-related activities. May be repeated for a total of 6 units.
Course Attributes:
- UD-C: Arts and/or Humanities

MUS 405 Tonal Counterpoint (Units: 3)
Prerequisite: MUS 233.
Contrapuntal practices of the 18th century through written exercises in two- and three-parts based on analysis of examples from the literature. (Plus-minus letter grade only)

MUS 415 Orchestration (Units: 3)
Prerequisite: MUS 233.
Characteristics of modern orchestral instruments and the orchestral styles and techniques of the 18th, 19th, and 20th centuries. Representative scores from the literature and assignments in scoring for various instrumental ensembles. (Plus-minus letter grade only)

MUS 416 Theory Seminar (Units: 3)
Prerequisite: MUS 420.
Advanced analysis of musical works from specific periods or genres. Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)

MUS 420 20th Century Techniques (Units: 3)
Prerequisite: MUS 233.
Compositional procedures and musical structures of the 20th century through studies of the literature and composition. (Plus-minus letter grade only)

MUS 425 Composition Workshop (Unit: 1)
Prerequisites: MUS 420 (may be taken concurrently) and consent of instructor.
Free compositional work under supervision of instructor. Preparation of works for performance at a student recital. Analytical presentations of original works. May be repeated for a total of 5 units; only 1 unit counts in the major.

MUS 430 Improvisation (Units: 2)
Prerequisites: MUS 203 or MUS 206 and MUS 233 with a grade of C or better.
Emphasis on integrating improvisation techniques with music fundamentals across styles and practices. Classwork, 1 unit; activity, 1 unit. May be repeated for a total of 4 units.

MUS 431 Jazz Improvisation I (Units: 2)
Prerequisite: MUS 270 with a grade of C or better.
Study and application of jazz improvisation concepts utilizing extended harmonic approaches, quartalism, linear chromaticism, and advanced cross-rhythm sensibility. Structures used are primarily the blues and standard tunes. May be repeated for a total of 4 units.

MUS 432 Jazz Improvisation II (Units: 2)
Prerequisite: MUS 431.
Review and application of jazz improvisation concepts utilizing extended harmonic approaches, quartalism, linear chromaticism, and advanced cross-rhythm sensibility. Structures used are modern jazz standards. May be repeated for a total of 4 units.

MUS 433 Introduction to Music Technology (Units: 2)
Prerequisites: Familiarity with computers; ability to read music in two clefs; and consent of instructor. Enrollment priority given to music majors.
Basic MIDI protocol; synthesizer programming, sequencing, digital editing, and notation.

MUS 436 Introduction to the Electronic Music Studio (Units: 2)
Prerequisite: MUS 504 or equivalent preparation.
Operation of digital electronic music equipment, including use of computers in controlling electronic musical instruments.

MUS 438 Fundamentals of Computer Music (Units: 2)
Prerequisites: MUS 436 and MUS 504 or equivalent preparation.
Theories and issues in software-based digital audio signal analysis, processing, and synthesis. Software synthesis and control techniques in creating original musical compositions.

MUS 440 Jazz Harmony (Units: 3)
Prerequisites: MUS 203 or MUS 206 and MUS 233 with a grade of C or better.
Notation and realization of harmony in jazz music. Standard chord progressions and lead sheet symbols. (Plus-minus letter grade only)

MUS 441 Jazz Composition and Arranging (Units: 3)
Prerequisite: MUS 440.
Major jazz compositional practices, including review and application of form, harmonic and linear progression as developed through jazz masterworks of the 20th century. Composers' scores and transcribed improvisations, as well as student works. (Plus-minus letter grade only)

MUS 445 Creative Concepts in Music (Units: 2)
Prerequisite: MUS 430 or consent of instructor.
The role of musical creativity in cognitive, cultural, political and socio-historical terms, is examined in relation to the imaginative, original, eclectic, experimental, and innovative, as expressed by a number of select musical artists, their times, and masterworks.
MUS 446 Music, Ideas, and Culture (Units: 3)
Prerequisite: ENGL 214.
Functions of music in diverse social and cultural traditions; relation to other arts and disciplines. Writings of philosophers, critics, musicologists and musicians about music. (This course is offered as HUM 320 and MUS 446. Students may not repeat the course under an alternate prefix.)
**Course Attributes:**
- UD-C: Arts and/or Humanities

MUS 450 Projects in Theory and Composition (Units: 1)
Prerequisites: Junior standing; music major; MUS 420 and MUS 425; must be taken concurrently with MUS 460; or consent of instructor;
Supervised study of composition and theoretical problems and preparation of works for performance. May be repeated for a total of 4 units. (Plus-minus letter grade only)

MUS 460 Repertoire for Composers (Unit: 1)
Prerequisites: Junior standing; music major; MUS 420; must be taken concurrently with MUS 425 and MUS 450; or consent of instructor.
Literature associated with the study of MUS 450 as required for the Bachelor of Music. May be repeated for a total of 4 units. (Plus-minus letter grade only)

MUS 477 Music Business: Career Management in Music (Units: 3)
Prerequisite: Upper division standing.
An overview of the music business including songwriting, publishing, live performance, recording, merchandising, and licenses. Exploration of music industry career paths such as arts management, music products and merchandizing, public relations, music production and recording, publishing, and online music distribution.

MUS 501 Music, The Listener's Art (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Music literature in historical/cultural contexts. Skills and techniques of analytical listening and the reading of simple scores.

MUS 502 The Opera (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Synthesis of drama, music, scenery, costume, and dance in opera. Development of the genre in Italy, France, England, and Germany showing how it differed from one country to the next due to linguistic and theatrical traditions.

MUS 504 Survey of Electronic Music (Units: 3)
Prerequisite: Upper division standing.
Materials and methodology of electronic music as a contemporary art form. Literature of electronic music and related theoretical issues drawn from the fields of physics, acoustics, psychoacoustics, and digital audio, including the MIDI communication protocol.

MUS 505 Music of the World's Peoples (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Non-Western music and arts, studied within their socio-cultural context. Autochthonous folk, and classical music in societal context as art forms. Lecture, discussion, and guided listening, enhanced by selected audio-visual presentations and readings.
**Course Attributes:**
- UD-C: Arts and/or Humanities
- Global Perspectives

MUS 506 Survey of Jazz (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Jazz from early ragtime to the present. Musical-social-economic history of jazz and its interaction with classical and rock musics.
**Course Attributes:**
- U.S. History
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

MUS 507 Jazz and Blues in Film (Units: 3)
Prerequisite: Upper Division Standing
Survey of the history and impact of jazz and blues on the Hollywood film industry from the early "soundies" and "The Jazz Singer" to modern day blockbusters. Noted jazz composers such as Henry Mancini, Quincy Jones, and Olive Nelson will be included, as well as works by jazz-influenced composers of the 1970's film era, such as Marvin Gaye, Isaac Hayes, and Melba Liston. (This course is offered as MUS 507, HUM 321, and TH 507. Students may not repeat the course under an alternate prefix.)
**Course Attributes:**
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

MUS 508 Modern Music: American Iconoclasts (Units: 3)
Prerequisites: Upper division standing and satisfaction of Graduation Writing Assessment Requirement (GWAR).

MUS 509 Historical Performance: Keyboard Practices (Units: 3)
Prerequisites: MUS 303 and MUS 360, or consent of instructor.
Historical review of keyboard performance practices of the Venetian, Roman, and English schools of the mid-late Renaissance and early Baroque eras; period improvisation, continuo realization and accompaniment; works of mid-Baroque French masters and clavecin school of the late seventeenth and early eighteenth century; cembalo repertoire of the late Baroque and pre-Classical periods. Maybe repeated for a total of 6 units.

MUS 510 Keyboard Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Music from 16th to 20th centuries viewed through a survey of piano, harpsichord, and organ literature. Required for majors in piano but open to other qualified students.
MUS 511 The Roots of Rock (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Popular music as a reflection of American culture; folk and ethnic roots, regionalism, commercialism; influence of technology, country, rhythm and blues, rock. Topics include general aspects of early rock development or focus on a particular early rock group or performer. Topic to be specified in Class Schedule. May be repeated for a total of 6 units as topics vary.

MUS 512 Rock Since the Mid-1960s (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

An examination of developments in Rock from the mid-1960s to the early 1980s: significant styles, social impact of styles, and the influence of electronic technology, with an emphasis on mid-60s to early 70s styles as being foundational. Lectures, readings, and recordings are used to familiarize students with the history and stylistic development of rock music.

MUS 520 Seminar in Music Literature (Units: 3)
Prerequisite: Satisfaction of Graduation Writing Assessment Requirement (GWAR).

Group study of music literature of specific periods, genres or styles. Topic to be specified in Class Schedule. May be repeated when topics vary.

MUS 530 Musics of the Middle East and India (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Musical cultures of Iran, Turkey, and the Arab world, including North Africa, Central Asia, and Indian sub-continent. Traditional instruments, concepts, and contexts of music making. Students may substitute this course for MUS 520 as preparation for MUS 598.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

MUS 531 Musics of North and Southeast Asia (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Musical cultures of Japan, Korea, China, Philippines, Vietnam, Cambodia, Thailand, Burma, Malaysia, Indonesia, as well as Australia and Pacific Oceania. Traditional instruments, concepts, and contexts of music making. Students may substitute this course for MUS 520 as preparation for MUS 598.

MUS 532 Music of Latin America (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Musical cultures of Central and South America, including Caribbean. Socio-historical events related to contexts of music-making, instruments, and various genres. Students may substitute this course for MUS 520 as preparation for MUS 598.

MUS 542GW Ethnomusicology - GWAR (Units: 3)
Prerequisites: Upper division standing; music majors only; ENG 214 or equivalent with a grade of C or better.

Research and extensive writing and revision skills developed and applied in ethnomusicology to the study of selected musical cultures. History, theory and methodology, fieldwork, transcription, and cross-cultural analysis. (ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

MUS 545 Traditional Kulintang Music and Dance of the Southern Philippines (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Music and dance of Southern Philippines, emphasis on Kulintang tradition of Mindanao and Sulu Archipelago. Lectures and hands-on workshops on dance movement and music of Kulintang culture. May be repeated for a total of 6 units.
(This course is offered as ETHS 545, DANC 545, and MUS 545. Students may not repeat the course under an alternate prefix.)

MUS 550 Music from the Middle Ages to 1750 (Units: 3)
Prerequisites: MUS 233 and satisfaction of Graduation Writing Assessment Requirement (GWAR).

From Gregorian Chant through the death of Bach. Music of the Medieval, Renaissance, and Baroque eras involving stylistic and formal analysis. Examples from literature are related to performance practices of each period. Intended for music majors and minors. (Plus-minus letter grade only)

MUS 551 Classic and Romantic Music (Units: 3)
Prerequisites: MUS 233 and satisfaction of Graduation Writing Assessment Requirement (GWAR).

Classical and Romantic periods through the beginning of the 20th century. Historical performance techniques. (Plus-minus letter grade only)

MUS 552 20th Century Music (Units: 3)
Prerequisites: MUS 233, MUS 551, and satisfaction of Graduation Writing Assessment Requirement (GWAR).

Evolution of the major trends of musical thought from the late 19th century to the present. Stylistic and formal analysis of representative music literature. Intended for music majors and minors. (Plus-minus letter grade only)

MUS 558 Music of John Coltrane (Units: 3)
Prerequisite: MUS 506.

Life and music of saxophonist/composer John Coltrane within related socio-historical contexts of jazz in 20th century America. In-class listening/analysis. (ABC/NC grading only)

Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

MUS 559 Women in Jazz (Units: 3)
Prerequisite: MUS 506 or consent of instructor.

The role of women in the history of jazz. [Formerly a topic under MUS 558]
(This course is offered as MUS 559 and TH A 558. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- U.S. History
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
MUS 560 Lyric Diction I (Units: 2)
Prerequisite: Upper division standing or consent of instructor.
A systematic study of Italian, Latin, and Spanish signing pronunciation using the International Phonetic Alphabet. Intended for voice majors and music educators. (Plus-minus letter grade only)

MUS 561 Lyric Diction II (Units: 2)
Prerequisite: MUS 560 or consent of instructor.
A systematic study of German and French singing pronunciation using the International Phonetic Alphabet. Intended for voice majors and music educators. (Plus-minus letter grade only)

MUS 565 Vocal Literature (Units: 3)
Prerequisites: MUS 550, MUS 551, or MUS 552.
Vocal literature from the 16th century to the present. History, style, and performance practices. Required for majors in voice, but open to other qualified students. (Plus-minus letter grade only)

MUS 598 Senior Thesis (Units: 3)
Prerequisites: MUS 520 and satisfaction of Graduation Writing Assessment Requirement (GWAR).
Development and completion of the senior thesis and, as appropriate, public presentation of the results of that creative work. Bibliographical and stylistic techniques requisite to the organization and presentation of research projects.

MUS 600 Music Internship (Units: 3)
Prerequisites: Restricted to upper division music major and minor, or consent of instructor.
Practical field experience with employers in the music industry. May be repeated for a total of 12 units. (CR/NC only)

MUS 601 Music for Children (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Musical materials, concepts, and skills appropriate for use in elementary classrooms. Music fundamentals applied through development of basic skills on an instrument: guitar, recorder, or piano.

MUS 608 Early Field Experience in Music Education (Units: 2)
Prerequisite: Upper division standing.
Provides 45 hours of observation and participation in school music classes at elementary, middle, and high schools. Classwork, 1 unit; fieldwork, 1 unit. (Plus-minus letter grade only)

MUS 610 General Music (Units: 3)
Prerequisite: Upper division standing.
Materials and methods for teaching music in general music classes. (Plus-minus letter grade only)

MUS 612 The Voice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Physiological and psychological mechanics of singing. Techniques of vocal instruction and comparative methods of developing vocal techniques and repertoire. Intended for music majors and minors. (Plus-minus letter grade only)

MUS 614 Piano Pedagogy (Units: 2)
Prerequisite: Piano major or audition.
Problems in teaching piano: elements of technique, theory and sight-reading, performance and analysis of teaching materials, class procedures and methods.

MUS 616 Woodwinds (Units: 2)
Prerequisite: Consent of department.
Individual and class instruction involving techniques and performance problems of flute, clarinet, oboe, bassoon, and saxophone. Laboratory.

MUS 618 Strings (Units: 2)
Prerequisite: Consent of department.
Individual and class instruction involving techniques and performance problems of violin, viola, violoncello, and string bass. Laboratory. Extra fee required.

MUS 620 Brass Instruments (Units: 2)
Prerequisite: Consent of department.
Individual and class instruction involving techniques and performance problems of horn, trumpet, trombone, baritone, and tuba. Laboratory.

MUS 640 Ensemble Conducting (Units: 2)
Prerequisite: MUS 232 or equivalent.
Fundamentals of conducting and score-reading; standard patterns, stick technique and conducting gestures used with choral and instrumental ensembles.

MUS 644 Advanced Instrumental Conducting and Literature (Units: 3)
Prerequisites: Upper division standing; MUS 415, MUS 640.
Elements of conducting with instrumental laboratory experience; director’s responsibility and rehearsal methods; selection of literature for wind, string, percussion ensembles in K-12 schools. (Plus-minus letter grade only)

MUS 645 Advanced Choral Conducting and Literature (Units: 3)
Prerequisites: Upper division standing and MUS 640.
Elements of conducting with choral laboratory experience; director’s responsibility and rehearsal methods; selection of literature for children’s voices, adolescent voices, men’s and women’s choirs. (Plus-minus letter grade only)

MUS 699 Independent Study in Music (Units: 1–3)
Prerequisites: Upper division standing, consent of the instructor, and approval of the student’s adviser.
Independent study, under supervision of a staff member selected by the student, of some aspect of the field not covered by regular courses. May be repeated with consent of instructor, the adviser, and the department chair. No more than 3 units can be taken during any one semester.

MUS 700 Introduction to Graduate Study (Units: 3)
Prerequisites: Graduate standing or consent of instructor; priority given to music majors.
Use and evaluation of major bibliographic materials, including primary and secondary sources; techniques of research through development of individual projects. (Plus-minus letter grade only)
MUS 701 Graduate Seminar in Music (Units: 3)
Prerequisite: Graduate standing.
Research seminar on topics in music history and theory. Topic to be specified in Class Schedule. May be repeated when topics vary.

MUS 710 Advanced Analysis (Units: 3)
Prerequisites: Graduate standing in Music; MUS 700 and completion of all theory remediation; must be taken within the first 2 semesters of study.
Seminar on analytical techniques and their application to in-depth study of major works from the literature of the 17th, 18th, 19th, and 20th centuries. (Plus-minus letter grade only)

MUS 716 Graduate Theory Seminar (Units: 3)
Prerequisites: Restricted to graduate level music students; MUS 710 or consent of instructor;
Seminar on analytical techniques and their application to in-depth study of major works written after 1950. May be repeated when topics vary. (Plus-minus letter grade only)

MUS 720 Directed Projects in Theory or Composition (Unit: 1)
Prerequisites: Graduate standing; must be taken concurrently with MUS 725; or consent of instructor.
Directed individual studies with faculty supervision in composition or theory. May be repeated for a total of 4 units.

MUS 724 Issues in Ethnomusicology (Units: 2)
Prerequisite: Graduate standing in Art or consent of instructor.
Historical issues in ethnomusicology examined through assigned readings in the field; interdisciplinary range of focus includes music and identity, theory and methodology, gender and cross-cultural studies. May be repeated for a total of 4 units. (Plus-minus letter only)

MUS 725 Practicum in Composition (Unit: 1)
Prerequisites: Graduate standing; must be taken concurrently with MUS 720 and MUS 730; or consent of instructor.
Directed individual studies with faculty supervision in advanced orchestration; 20th century styles and practices; problems in scoring and analysis. May be repeated for a total of 4 units.

MUS 730 Composition Workshop (Unit: 0)
Prerequisites: Graduate standing in music; must be taken concurrently with MUS 720 and MUS 725.
Analytical presentations of original works, analysis of new compositions, and participation in critical discussion of presentations. Required each semester of matriculating graduate music composition majors. (CR/NC grading only)

MUS 751 The Renaissance (Units: 3)
Prerequisite: MUS 550.
Historical and analytical study of the works of a single composer, style, or special repertoire from the Renaissance period. (Plus-minus letter grade only)

MUS 752 The Baroque (Units: 3)
Prerequisites: MUS 700, and either successful completion of the appropriate portion of the graduate classification exam in music history or MUS 550.
Graduate seminar focused on detailed historical and analytical study of the works of a single composer, style, or special repertoire from the baroque period. (Plus-minus letter grade only)

MUS 753 The Classical Era (Units: 3)
Prerequisites: MUS 700, and either successful completion of the appropriate portion of the graduate classification exam in music history or MUS 551.
Graduate seminar focused on detailed historical and analytical study of the works of a single composer, style, or special repertoire from the classical period. (Plus-minus letter grade only)

MUS 754 The Romantic Era (Units: 3)
Prerequisites: MUS 700, and either successful completion of the appropriate portion of the graduate classification exam in music history or MUS 551.
Graduate seminar focused on detailed historical and analytical study of the works of a single composer, style, or special repertoire from the romantic period. (Plus-minus letter grade only)

MUS 755 The Twentieth Century (Units: 3)
Prerequisites: MUS 700, and either successful completion of the appropriate portion of the graduate classification exam in music history or MUS 552.
Graduate seminar focused on detailed historical and analytical study of the works of a single composer, style, or special repertoire from the 20th and 21st centuries. (Plus-minus letter grade only)

MUS 760 Curriculum and Instruction I: Music (Units: 3)
Prerequisites: Graduate standing or subject matter waiver for music education; must be taken concurrently with S ED 660.
Principles and practices of curriculum planning and instruction in music for students in grades K-12. (Plus-minus letter grade only)

MUS 761 Curriculum and Instruction II: Music (Units: 3)
Prerequisites: Graduate standing or subject matter waiver for music education; must be taken concurrently with S ED 660.
Principles and practices of curriculum planning and instruction in music for students in grades K-12. (Plus-minus letter grade only)

MUS 776 Directed Projects in Performance (Units: 2)
Prerequisites: Music majors only; must be concurrently enrolled in a related performance course or participation in related ensembles as assigned by supervisor; consent of department and supervising faculty.
Graduate individual projects in performance and literature for piano, voice, orchestral and band instruments. Topics to be specified in Class Schedule. May be repeated for a total of 6 units.

MUS 778 Chamber Music Performance (Unit: 1)
Prerequisite: Audition.
Open to graduate performance majors. Preparation and performance of major works of chamber music literature. May be repeated for a total of 8 units.
MUS 780 Graduate Major Repertoire (Units: 2)
Prerequisite: Consent of department.
Study of solo music repertoire on a particular instrument or voice. Topics to be specified in Class Schedule. May be repeated when topics vary.

MUS 781 Choral Conducting (Units: 2)
Prerequisite: Consent of department.
Directed individual projects in choral conducting. Evaluation and selection of appropriate choral literature. Rehearsal techniques. May be repeated for a maximum of six units.

MUS 782 Instrumental Conducting (Units: 2)
Prerequisite: Consent of department.
Directed individual projects in instrumental conducting. Evaluation and selection of appropriate band and orchestral literature. Rehearsal techniques. May be repeated for a maximum of 8 units. (Plus-minus letter grade only)

MUS 821 Research in Music Education (Units: 3)
Prerequisite: Consent of graduate major advisor.
Seminar in past and current research in music education. Techniques and instruments appropriate for research. Problems in designing and implementing research projects. (Plus-minus letter grade only)

MUS 822 Designing Curricula in Music (Units: 3)
Prerequisite: MUS 821.
Developing music units, courses, or curricula based on strong rationale and educational objectives, with intended learning outcomes, sequence, and evaluation, analyzing current practices and curricular materials. (Plus-minus letter grade only)

MUS 852 Directed Fieldwork in Music (Units: 1-3)
Prerequisites: Music majors only; consent of graduate major adviser and supervising instructor.
Directed research, observation, or experience in a specific area of graduate concentration. May be repeated for a total of 6 units.

MUS 894 Creative Work Project (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Recital or creative project presented by the student under faculty supervision as a culmination of study for the Master of Music in Performance or Master of Arts in Music. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC; RP grading only)

MUS 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Research, creative project, or recital presented by the student under faculty supervision as a culmination of study for the Master of Music or Master of Arts in Music. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)
Nursing (NURS)

NURS 300 Bridge to Professional Nursing (Units: 3)
Prerequisite: Restricted to APO RN majors.

Professional behaviors, leadership, health care systems (micro, meso & macro), health promotion, illness prevention, teaching/learning theories, quality improvement, family theory and child abuse training, informatics, nursing theory, and decision making. (ABC/NC grading only; CR/NC allowed)

NURS 311 Human Development and Health Assessment Theory and Lab (Units: 5)
Prerequisites: Restricted to upper division Nursing majors; concurrent enrollment in NURS 312GW, NURS 314.

Examination of physical assessment techniques, appropriate use of commonly used screening tools, health information technologies, HIPAA, developmental considerations in assessment, interviewing techniques, screening, dosage calculations, and basic nursing interventions. Lecture, 3 units; laboratory, 2 units. Extra fee required.

NURS 312GW Research and Evidence-Based Practice in Nursing - GWAR (Units: 3)
Prerequisites: Restricted to Nursing majors; ENG 214 with a grade of C or better; concurrent enrollment in NURS 311, NURS 314.

Principles of evidenced-based practice, research methodology, and application of research and evidenced-based practice in a clinical setting. (ABC/NC grading only)

Course Attributes:
- Graduation Writing Assessment

NURS 314 Health Promotion in Nursing (Units: 3)
Prerequisites: Restricted to upper division Nursing major; concurrent enrollment in NURS 315 and all first-semester Nursing courses.

Examination of determinants of health, levels of prevention, health literacy, social marketing, behavior change theory, advocacy and disaster preparedness. [Formerly part of NURS 314]

NURS 315 Health Promotions in Nursing - Practicum (Units: 2)
Prerequisites: Restricted to upper division Nursing major; concurrent enrollment in NURS 311, NURS 312GW, NURS 314.

Health promotion activities and basic nursing interventions in community and primary care settings. Extra fee required. (CR/NC grading only) [Formerly part of NURS 314]

NURS 326 Reproductive Health Theory (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 1 nursing courses; concurrent enrollment in NURS 327, NURS 328, NURS 329, NURS 350

Examination of reproductive health issues, normal pregnancy, health disparities, health policy, genomics/genetics, health promotion, domestic violence, evidence-based practice, nursing care during pre-conception, prenatal, intrapartum and post partum. Application of theoretical knowledge and skills in a variety of care settings. [Formerly part of NURS 326]

NURS 327 Reproductive Health Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 1 nursing courses; concurrent enrollment in NURS 326, NURS 328, NURS 329, NURS 350.

Application of reproductive health theoretical knowledge and skills in a variety of care setting. (CR/NC grading only) [Formerly part of NURS 326]

NURS 328 Psychiatric Mental Health Nursing Theory (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 1 nursing courses; concurrent enrollment in NURS 326, NURS 327, NURS 329, NURS 350.

Examination of most common psychiatric causes of morbidity and mortality including pathophysiology, pharmacologic and nursing interventions. Survey of epidemiology, health policy, legal/ethical considerations, communication, evidence-based practice and informatics. [Formerly part of NURS 328]

NURS 329 Psychiatric Mental Health Nursing Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 1 nursing courses; concurrent enrollment in NURS 326, NURS 327, NURS 328, NURS 350.

Application of mental health theoretical knowledge and nursing interventions in a care setting. (CR/NC grading only) [Formerly part of NURS 328]

NURS 350 Nursing Interventions Practicum I (Units: 2)
Prerequisites: Restricted to Nursing majors; successful completion of semester 1 nursing courses; concurrent enrollment in NURS 326, NURS 328.

Examination of basic nursing interventions including standard precautions, aseptic technique, IV management venipuncture, catheter insertion and management, and advanced assessment. Exploration of patient safety concerns, documentation, informatics and use of the research evidence. Laboratory includes demonstration, practice, and return demonstration.

NURS 410 Nursing Care of Children Theory (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 2 nursing courses; concurrent enrollment in NURS 411, NURS 420, NURS 421, NURS 450.

Examination of pathophysiology, pharmacology, and nursing care of ill children. [Formerly part of NURS 410]

NURS 411 Nursing Care of Children Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 2 nursing courses; concurrent enrollment in NURS 410, NURS 420, NURS 421, NURS 450.

Application of pathophysiology, pharmacology, and nursing care of ill children. (CR/NC grading only) [Formerly part of NURS 410]

NURS 420 Nursing Care of Adults Theory (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 2 nursing courses; concurrent enrollment in NURS 410, NURS 411, NURS 421, NURS 450.

Examination of pathophysiology, pharmacology and nursing care of chronic and acute conditions in the adult patient. [Formerly part of NURS 420]
NURS 421 Nursing Care of Adults Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 2 nursing courses; concurrent enrollment in NURS 410, NURS 411, NURS 420, NURS 450.

Application of pathophysiology, pharmacology and nursing care of chronic and acute conditions in the adult patient. (CR/NC grading only) [Formerly part of NURS 420]

NURS 450 Nursing Interventions Lab II (Units: 2)
Prerequisites: Restricted to Nursing majors; successful completion of semester 2 nursing courses; concurrent enrollment in NURS 410, NURS 420.

Practical application of nursing interventions, assessment, patient-centered care, evidenced-based practice, standard precautions, informatics, and safety principles in a laboratory.

NURS 500 Death and Dying in Contemporary Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Attitudes, beliefs, practices, grief responses, and bioethical issues of dying and death which confront the individual and society. Ways to cope and help oneself and others to enhance life and maturity. (This course is offered as NURS 500 and GRN 510. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- E1: Lifelong Learning Develop
- UD-D: Social Sciences

NURS 520 Advanced Medical Surgical and Critical Care Nursing (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 3 nursing courses; concurrent enrollment in NURS 521 or NURS 523, NURS 522, NURS 530, NURS 531.

Examination of pathophysiology, pharmacology and nursing care of critically ill patients, evidence-based practice, quality improvement, safety, teamwork and collaboration, leadership, nursing roles, patient-centered care, informatics, and factors influencing health outcomes. [Former part of NURS 520]

NURS 521 Advanced Medical Surgical and Critical Care Nursing Capstone Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 3 nursing courses; concurrent enrollment in NURS 520, NURS 522, NURS 530, NURS 531.

Examination of pathophysiology, pharmacology and nursing care of critically ill patients, evidence-based practice, quality improvement, safety, teamwork and collaboration, leadership, nursing roles, patient-centered care, informatics and factors influencing health outcomes. Course will be taught using a cohort model. Not open to students who have completed NURS 523. [Formerly part of NURS 520]

NURS 522 Chronic Care and End of Life Care Theory (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 3 nursing courses; concurrent enrollment in NURS 520, NURS 530.

Examination of palliative care, symptom management, cultural, legal/ethical safety, hospice care/case management, nutrition, education/health promotion, elder abuse, evidence-based practice, safety, information technologies, nursing roles in palliative care/end of life care, communication strategies.

NURS 523 Advanced Medical Surgical and Critical Care Nursing Capstone Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 3 nursing courses; concurrent enrollment in NURS 520, NURS 522, NURS 530, NURS 531.

Examination of pathophysiology, pharmacology and nursing care of critically ill patients, evidence-based practice, quality improvement, safety, teamwork and collaboration, leadership, nursing roles, patient-centered care, informatics, and factors influencing health outcomes through the preceptorship model. Not open to students who have completed NURS 521. [Formerly part of NURS 520]

NURS 530 Community Health and Global Perspectives Theory (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 3 nursing courses; concurrent enrollment in NURS 520, NURS 521 or NURS 523, NURS 522, NURS 531.

Examination of occupational and environmental health, issues in global health, comparison of healthcare systems, healthcare economics, epidemiology, rural health, program planning and evaluation, leadership, and disaster preparedness. [Former part of NURS 530]

NURS 531 Community Health and Global Perspectives Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of semester 3 nursing courses; concurrent enrollment in NURS 520, NURS 521 or NURS 523, NURS 522, NURS 530.

Exploration of occupational and environmental health, global health issues that affect local communities, identification of community resources to promote optimal health, epidemiology, program planning and evaluation within an agency serving a local community. (CR/NC grading only) [Formerly part of NURS 530]

NURS 555 Capstone Practicum (Units: 3)
Prerequisites: Restricted to Nursing majors; successful completion of level 4 nursing; concurrent enrollment in level 5 nursing courses.

Promoting independence in the synthesis and practice of biophysical and psychosocial nursing care to specific client groups across the life span including leadership and management concepts. Focus on advanced biophysical and psychosocial aspects of care for the patient and family.

NURS 558 Professional Practice Concepts Theory (Units: 3)
Prerequisites: Restricted APO program only; registered nurse license; concurrent enrollment in NURS 559;

Opportunity to explore leadership and management concepts in nursing practice. Examination of organizational structure and aspects of leadership central to the clinical staff role.

NURS 559 Professional Practice Concepts Practicum (Units: 3)
Prerequisites: Restricted APO program only; registered nurse license; concurrent enrollment in NURS 558.

Practicum experience to gain competency in clinical patient management through the application of leadership and management principles; exploration of nurse manager roles and responsibilities in a clinical setting.

NURS 680 International Field Study in Nursing (Units: 3)
Prerequisite: Admission to the nursing program.

Field visits and community service related to nursing. Involves travel and volunteer work in hospitals, clinics, and other community centers in the destination country. Short-term study abroad.
NURS 693 RN-BSN Program Internship (Units: 3)
Prerequisite: Restricted to the APO program in Nursing.
Supervised employment in nursing. Career development, professional experience, and enhancing the education experience. May be repeated for a total of 12 units. (Plus-minus ABC/NC grading only)

NURS 699 Independent Study in Nursing (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.
An intensive study of a particular problem in nursing under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only. May be repeated for credit a total of 6 units.

NURS 702 Health Systems Management (Units: 3)
Prerequisites: Restricted to students in the M.S.N. program; NURS 706.
Assessment of healthcare organizations, identification of systems issues and organization-wide changes. Use of complexity science, systems thinking, business and financial models to analyze practice quality and cost. Use of QI models and tools.

NURS 703 Education, Informatics, and eTechnology in Advanced Nursing Practice (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Teaching and learning principles, health literacy and patient education strategies including adult learning principles. Use of information technologies in patient education. Analyze impact of information technologies/eTechnologies on patient education.

NURS 706 Health Care Policy and Nursing Leadership (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Concepts and theories of public policy-making and relevant political systems in the context of healthcare delivery in the U.S. Leadership theory and models including effective leadership strategies to deal with conflict and manage teams.

NURS 708 Diagnosis and Management in Primary Care (Units: 4)
Prerequisite: Restricted to students in the M.S.N. program and FNP emphasis.
Diagnosis and management of primary care health problems across the lifespan with an emphasis on evidence-based practice and health/illness theories from multiple disciplines. Interdisciplinary approach to primary care and health promotion.

NURS 711 Advanced Physical Assessment Across the Life Span (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Advanced physical assessment skill acquisition with interpretation and documentation of lab and examination findings across the life span. Use of critical thinking and evidence-based practice approach to health promotion/health maintenance across the life span. Lecture, 2 units; laboratory, 1 unit. Extra fee required.

NURS 715 Pharmacological Principles Across the Life Span (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Clinical application of pharmacology of drugs commonly used in the treatment of chronic disease and minor acute illness across the lifespan; integration of drug therapy.

NURS 716 Advanced Pathophysiology and Diagnostic Reasoning I (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Integration of advanced physiology and pathophysiology with clinical application to advanced practice nursing; diagnostic reasoning.

NURS 717 Advanced Pathophysiology and Diagnostic Reasoning II (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Integration of advanced pathophysiology with clinical management approaches across the lifespan. Advanced diagnostic reasoning.

NURS 720 Epidemiology and Biostatistics in Advanced Practice Nursing (Units: 3)
Prerequisites: Restricted to students in the M.S.N. program; course in inferential statistics.
Epidemiology and interrelationship with biostatistics. Understanding the complex factors involved in the distribution of health and disease in the population. Application of concepts in a variety of care settings and in specific patient populations.

NURS 721 Program Planning and Financial Management in Nursing Practice (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Use program planning models to conduct a needs/asset assessment and develop an evaluation plan. Utilize business planning and financial management principles to develop a business plan and conduct financial analysis of an organization or work unit. [CSL may be available]

NURS 732 Ethics in Advanced Nursing Practice (Units: 3)
Prerequisite: Restricted to students in the M.S.N. program.
Case and problem-based approach to ethics, ethical dilemmas and ethical decision making for advanced practice nurses. Exploration of ethical principles related to contemporary clinical issues using a patient-centered approach.

NURS 794 Research and Evidence-Based Practice in Nursing (Units: 3)
Prerequisites: Restricted to students in the M.S.N. program; consent of instructor.

NURS 801 Graduate Nursing Practicum I (Units: 4)
Prerequisites: Restricted to students in the M.S.N. program; consent of advisor.
Integration of concepts from nursing, business, social sciences, education and epidemiological in a healthcare setting to address disease prevention and management, health promotion and illness prevention for individuals, families and/or aggregates.

NURS 802 Graduate Nursing Practicum II (Units: 4)
Prerequisites: Restricted to students in the M.S.N. program; NURS 801; take the national licensing examination (NCLEX-RN).
Synthesis and application of concepts from nursing, social sciences, education, and epidemiology in a healthcare setting to address disease prevention and management, health promotion and illness prevention for individuals, families, and/or aggregates.
NURS 804 Professional Issues and Nurse Practitioner Skills (Units: 3)
Prerequisites: Restricted to Family Nurse Practitioner graduate students; NURS 810; concurrent enrollment in NURS 811 or NURS 812.

Examination of NP roles and skills including invasive diagnostic and treatment procedures, emergencies in primary care settings, standardized procedures, clinical protocols, furnishing license and legal issue. Extra fees required.

NURS 810 Family Nursing Practitioner Practicum I (Units: 4)
Prerequisites: Restricted to Family Nurse Practitioner graduate students; NURS 711.

Beginning clinical practicum in a primary care setting. Use of evidence-based approach to provide health promotion and illness management to individuals and families across the lifespan. Completion of 200 practicum hours.

NURS 811 Family Nursing Practitioner Practicum II (Units: 4)
Prerequisites: Restricted to Family Nurse Practitioner graduate students; NURS 810.

Continuation of clinical practicum in a primary care setting. Use of evidence-based approach to provide health promotion and illness management to individuals and families across the lifespan. Completion of 200 practicum hours.

NURS 812 Family Nursing Practitioner Practicum III (Units: 4)
Prerequisites: Restricted to Family Nurse Practitioner graduate students; NURS 811.

Refine clinical practice in a primary care setting. Use of evidence-based approach to provide health promotion and illness management to individuals and families across the lifespan. Completion of 200 practicum hours.

NURS 895 Applied Research in Nursing (Units: 3)
Prerequisites: Consent of advisor, department chair, committee, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Integration of advanced nursing concepts in a written document such as intervention plan, grant proposal, business plan, focused review of the literature, clinical protocol or analysis paper demonstrating achievement of advanced practice nurse competencies.

NURS 897 Research in Nursing (Units: 1-3)
Prerequisites: Advancement To Candidacy (ATC) on file and departmental approval.

Study, discussion, and evaluation of topics germane to nursing. May not be used to satisfy M.S.N. minimum requirement for ATC. May be repeated with departmental approval. (CR/NC grading only)

NURS 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of advisor, department chair, committee, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

NURS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate major adviser and supervising faculty member.

An intensive examination, analysis, or synthesis of a problem under the direction of a member of the faculty. Open only to regularly enrolled students. May be repeated for a total of 6 units.
**Persian (PRSN)**

**PRSN 100 Summer Immersion Persian (Units: 3)**
Proficiency in the skills of listening, writing, reading, and speaking the Persian language. Exploration of the geography and culture of the Persian-speaking countries.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 101 First Semester Persian (Units: 5)**
First semester elementary modern Persian, designed to develop proficiency in the fundamental skills of listening, reading, speaking and writing Persian. Exploration of the geography, history, culture, and religion of the Persian-speaking world.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 102 Second Semester Persian (Units: 5)**
Prerequisite: PRSN 101 or equivalent.
Continuation of First-Semester Persian.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 103 Third Semester Persian (Units: 5)**
Prerequisites: PRSN 101, PRSN 102, or equivalents.
Third semester modern Persian, designed to further develop proficiency in the fundamental skills of reading and speaking. Continued exploration of the geography, history, culture, and religion of the Persian-speaking world.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 104 Fourth Semester Persian (Units: 5)**
Prerequisite: PRSN 103 or equivalent.
Fourth semester modern Persian, designed to further develop proficiency in the fundamental skills of reading, speaking and translating. Continued study of Persian language, literature and culture to achieve a deeper understanding.

**PRSN 206 Basic Persian Conversation (Units: 3)**
Prerequisite: PRSN 102 or equivalent.
Review basic grammar; develop proficiency in the skills of listening and speaking the Persian language.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 250 Intermediate Persian (Units: 3)**
Prerequisite: PRSN 206 or equivalent.
Continued development of grammar and conversation skills.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 260 Persian Culture and Civilization in English (Units: 3)**
Prerequisite: First-year composition or equivalent or consent of instructor.
Exploration of major themes in the development of Persian culture and civilization from antiquity to present including, but not limited to, religions, languages, ethnicities, arts, traditions, and customs. Taught in English.

**Course Attributes:**
- C2: Humanities
- Global Perspectives
- Social Justice

**PRSN 290 Introduction to Persian Literature in Translation (Units: 3)**
Prerequisite: ENG 114 or equivalent.
Examination of history, cultures, traditions, and religions as major themes in contemporary literature of Persian writers. Taught in English. [Formerly PRSN 510]

**Course Attributes:**
- C3: Humanities: Literature
- Global Perspectives
- Social Justice

**PRSN 350 Advanced Persian (Units: 3)**
Prerequisite: PRSN 250 or equivalent.
Development of advanced language skills; focus on recognizing forms of standard and vernacular speaking.

**PRSN 411 Persian Media in English (Units: 3)**
Prerequisite: ENG 214 or equivalent.
Development of Persian socio-political and cultural understanding through examination of current events as presented in the media in English language.

**Course Attributes:**
- UD-C: Arts and/or Humanities
- Global Perspectives
PRSN 450 Religious Traditions in Iran (Units: 3)
Prerequisite: ENG 214 or equivalent.
Investigation into religious traditions of Iran from the inception to the present-day. Taught in English. [Formerly PRSN 601]
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

PRSN 500 Introduction to Persian Literature (Units: 3)
Prerequisite: PRSN 350 or equivalent.
Development of poetry and prose in the Persian literature in different periods and genres. Taught in the Persian language.

PRSN 530 Topics in Persian Studies in English (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to Iranian languages, literatures, cultures, arts, history, cinema, and other Iranian, Afghani, and Persian related topics. Taught in English. May be repeated for a total of 9 units when topics vary. [Formerly PRSN 550, generic]

PRSN 550 Persian Culture Through Films in English (Units: 3)
Prerequisite: ENG 214 or equivalent.
Aspects of contemporary Iranian cultures, as presented in the Iranian film, are examined in critical context.
Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

PRSN 699 Independent Study (Units: 1-3)
Prerequisite: PRSN 350 or ENG 214 or equivalent.
Written projects, in English or Persian, requiring critical analysis and interpretation of cultural or literary issues. May be repeated for a maximum of 6 units.
Philosophy (PHIL)

PHIL 101 Introduction to Philosophy (Units: 3)
Reflection on basic aspects of human experience, thought, and activity inspired by the writings of philosophers.

Course Attributes:
- C3: Humanities: Literature

PHIL 105 Introduction to Philosophy and Religion (Units: 3)
The perennial quest for the sacred. Cosmological, psychological, and mystical teachings of the great Eastern and Western religious traditions.

Course Attributes:
- C2: Humanities

PHIL 110 Introduction to Critical Thinking I (Units: 3)
Skills involved in understanding, criticizing, and constructing arguments—and providing foundation for further work not only in philosophy but in other fields as well. (Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
- A3: Critical Thinking

PHIL 130 Political and Social Philosophy (Units: 3)
Liberal democratic theories of decision making and social policy: their place in the world today, their place in the history of social and political philosophy, and in radical and conservative political criticism.

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

PHIL 150 Contemporary Moral/Political Issues (Units: 3)
Theories of the good life, of ethics, of rights, and of justice, through the examination of contemporary moral issues: capital punishment, affirmative action, abortion, racial and sexual equality, privacy, pornography, and environmental protection. (This course is offered as PHIL 150 and PLSI 150. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- C2: Humanities
- Social Justice

PHIL 160 Introduction to Philosophy of the Arts (Units: 3)
Art appreciation and criticism including the nature of beauty, artistic genius, and art as sign or symbol.

Course Attributes:
- C1: Arts

PHIL 205 Formal Logic I (Units: 3)
Contemporary treatment of structure of arguments by means of sentential logic and quantifiers; comparison of axiomatic, natural deductive, and tree-method approaches.

PHIL 210 Great Thinkers: East and West (Units: 3)
Enduring philosophical questions about human nature and the cosmos as seen through the eyes of mankind’s greatest and most influential thinkers, Eastern and Western.

Course Attributes:
- C2: Humanities
- Global Perspectives

PHIL 230 American Political Philosophy (Units: 3)
Philosophical foundations of the values and practices of our law and society, from the nation’s founders to philosophies of justice, equality, and rights today.

PHIL 301 Ancient Philosophy (Units: 3)
Prerequisites: PHIL 110, ENG 114, or equivalents.
Origins of Western philosophy in the Eastern Mediterranean region: from the presocratics to the Stoics, Epicureans, and Neo-Platonists, emphasizing Socrates, Plato, and Aristotle. Connections and contrasts between philosophy, natural science, myth, and religion.

Course Attributes:
- UD-C: Arts and/or Humanities

PHIL 302 Medieval Philosophy (Units: 3)
Prerequisites: PHIL 110, ENG 114, or equivalents.
Medieval philosophy to the Renaissance—Augustine, Boethius, Aquinas, and related authors. Individuals, universals, community, personality, freedom, and nature; theory of signs, symbols, analogical models; labor and intellectual work; private property, law, and the common good.

Course Attributes:
- UD-C: Arts and/or Humanities

PHIL 303 Modern Philosophy (Units: 3)
Prerequisites: PHIL 110, ENG 114, or equivalents.
Modern philosophy against the background of Protestantism, capitalism, the Enlightenment, and modern science to the end of the 19th century. Includes Descartes and continental Rationalism, British Empiricism, Kant; may include such topics as German and British idealism, positivism, and pragmatism.

Course Attributes:
- UD-C: Arts and/or Humanities

PHIL 315 Introduction to Global Peace Studies (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
The field of peace studies and the integrative questions which must be answered to achieve a coherent perspective on world peace. National and international issues, the environment, philosophy, literature, arts, media, and education. (This course is offered as GPS 315, I R 315, and PHIL 315. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
PHIL 320GW Philosophical Analysis - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C- or better, PHIL 110 or equivalent.
Analytic, interpretive, and expressive written communication skills essential for philosophical study. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

PHIL 321 Being and Knowing (Units: 3)
Prerequisite: ENG 214 or equivalent.
Introduction to some of the most important issues in metaphysics and epistemology through their treatment by classic and contemporary authors; e.g., mind and matter, thought, belief, perception, meaning, truth, knowledge, appearance, reality, freedom, and identity.

PHIL 330 Political Philosophy (Units: 3)
Prerequisites: Sophomore or higher standing; and one lower-division composition course; or consent of instructor.
The forms, purposes, and justification of political orders; theories of human nature, value, and history. Foundations of political philosophy in the thought of such writers as Plato, Hobbes, Mill, and Marx.
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

PHIL 335 Law and Society (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
Relation between law and society, developed through the analysis of court cases centered on topics (capital versus labor, the individual versus the state) in their historical setting. Legal research.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

PHIL 350 Philosophy of Science (Units: 3)
Prerequisite: ENG 214 or equivalent.
Philosophy of science with attention to contemporary formulations.
Course Attributes:
• UD-B: Physical Life Science

PHIL 351 Philosophy of Risk (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Philosophical issues about risk assessment and risk management, with attention to their scientific and ethical dimensions. Philosophical analyses of cases such as climate change, energy consumption, water related environmental risks in California, allocation of scarce medical resources, and genetic testing.
Course Attributes:
• UD-B: Physical Life Science
• Environmental Sustainability

PHIL 355 Politics and Ethics of the Consumer Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Politics and ethics of consumption-oriented society; nature of industrial society; its structures, values, and consumption practices.
(This course is offered as PLSI 355 and PHIL 355. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Environmental Sustainability
• Social Justice

PHIL 365 Science and Civilization (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
Role of science in modern civilization. Ethical aspects of science, scientific conceptions, and effects of science on the quality and direction of human existence.

PHIL 366 Philosophical Issues in Sexuality (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
Legal, moral, and conceptual issues concerning human sexuality. Rape, pornography, abortion, prostitution, homosexuality, marriage, promiscuity, perversion, sexual politics, sex and religion, and the language of sex.
(This course is offered as PHIL 369 and SXS 369. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

PHIL 375 Peace Law and Human Rights in the U.S. (Units: 3)
Prerequisites: Sophomore or higher standing; one lower division composition course; or consent of instructor.
Law of peace from the local to the international level; international treaties, covenants, statutes of Congress, legislatures, and city councils, criminal indictments, court affidavits, judges opinions, jury instructions, and relevant articles.
(This course is offered as GPS 375 and PHIL 375. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives
• Social Justice

PHIL 378 Philosophy of Criminal Law (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
Philosophical examination of concepts and principles that are central to our criminal law, including investigation of whether there is a role for moral rationales.
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice
PHIL 379 Philosophy of Constitutional Interpretation (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course, or consent of instructor.
Study and critique the most influential attempts to devise philosophical justification of or motivation for particular theories of constitutional interpretation.

PHIL 380 Philosophy of Law (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course, or consent of instructor.
Relationship of law and morality. Basis for legal accountability. Who should be accountable? For what? Why?
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

PHIL 383 Ethics in Medicine (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course, or consent of instructor.
Ethical issues in medicine and nursing: treating dying patients, right to health care, nurse/physician conflicts, health and basic values, freedom under new technology, and medical bureaucracy. Uses philosophical approaches to understand and to help resolve these problems. [CSL may be available]
Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Social Justice

PHIL 384 Philosophy of Research Ethics (Units: 3)
Prerequisite: ENG 114 or equivalent.
Principles, practice and philosophical foundations of research ethics, from the perspectives of researchers, subjects of research, and institutional research review board members. Includes focus on ethical research design.
Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

PHIL 392 Philosophy of Animals (Units: 3)
Prerequisite: ENG 114 or equivalent.
Examination of different methodologies and results from scientific studies of non-human animals. Analysis of one or more philosophical debates that address the differences and similarities between humans and animals. Critical analysis of the use of animals as experimental, physiological, psychological, or social models. Topic to be specified in Class Schedule. May be repeated for a total of 6 units.

PHIL 395 Ethical Issues: Science and Technology (Units: 3)
Prerequisite: ENG 114 or equivalent.
Ethical issues arising from or intrinsic to the process of scientific research and development or from the implementation or commercialization of new technologies.
Course Attributes:
• UD-B: Physical Life Science
• Social Justice

PHIL 410 Topics in the History of Philosophy (Units: 3)
Prerequisite: ENG 114 or equivalent.
Exploration and critique of one or more topics of historical significance in philosophy. Topics to be specified in the class schedule. May be repeated when topics vary.

PHIL 415 The Hebrew Bible (Units: 3)
Prerequisite: ENG 214 or equivalent.
The Hebrew Bible in English translation from historical, literary, and religious points of view; culture and religion of ancient Israel and the ancient Near East.
(This course is offered as JS 415 and PHIL 415. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

PHIL 425 Existentialism (Units: 3)
Prerequisite: ENG 114 or equivalent.
An examination of the principal philosophical aims and theories of the Existential movement.
Course Attributes:
• UD-C: Arts and/or Humanities

PHIL 430 Topics in Contemporary Philosophy (Units: 3)
Prerequisite: ENG 114 or equivalent.
Study of one or more philosophical topics that currently stimulate excitement and debate in the field. Topics to be specified in the class schedule. May be repeated when topics vary.

PHIL 432 Nietzsche and Postmodernism (Units: 3)
Prerequisite: ENG 214.
Examines the most radical implications of Nietzsche's critique of western humanism. Close reading of major writings by Nietzsche and selected "postmodern" readings of Nietzsche.
(This course is offered as HUM 432 and PHIL 432. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

PHIL 434 Arendt and Heidegger (Units: 3)
Prerequisite: ENG 114 or equivalent or consent of instructor.
Hannah Arendt, a student of Heidegger, is renowned in her own right as philosopher and political theorist. In a comparative study explore the relationship of their ideas, and question the extent to which she was disciple or critic.
(This course is offered as HUM 434, JS 414, and PHIL 434. Students may not repeat the course under an alternate prefix.)
PHIL 435 Human Rights in Global Perspective (Units: 3)
Prerequisite: ENG 114 or equivalent.

Law and philosophy of human rights; philosophical issues and controversies about rights, historical development, major problems in implementing rights, and the international human rights movement.

Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

PHIL 436 Islamic Political Philosophy (Units: 3)
Prerequisite: ENG 114 or equivalent.

There is a long and rich tradition of political philosophy in the Islamic cultures of the Middle East. A comprehensive introduction to Islamic political philosophy.

Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

PHIL 445 Sex and Morality (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

Ethical theory and its applications to sexual conduct, therapy, and research. Fundamentals of moral augmentation; complicated, morality-laden issues associated with sexuality. (This course is offered as PHIL 445 and SXS 469. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities

PHIL 450 Ethics (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

Major problems in ethical theory with attention to their contemporary formulations.

Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

PHIL 451 Feminist Moral Issues (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Moral or ethical issues of concern to the contemporary women's movement. These include abortion ("pro-choice" vs. "pro-life"), pornography and censorship, hetero- and homosexuality, marriage, motherhood, and affirmative action ("reverse discrimination").

Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

PHIL 452 Nature of Morality (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

Exploration of historically significant philosophical conceptions of the nature of morality.

PHIL 455 Sex and the Law (Units: 3)
Prerequisite: ENG 114 or equivalent.

Philosophical investigation of legal issues pertaining to sexuality. Legal enforcement of morals and of specific cases and statutes regarding marriage, sex discrimination, abortion, rape, homosexuality, pornography, pedophilia, and other sex related activities. (This course is offered as PHIL 455 and SXS 569. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

PHIL 460 Philosophy of Art (Units: 3)
Prerequisites: Sophomore or higher standing, one lower-division composition course; or consent of instructor.

Problems in aesthetics; contemporary formulations.

Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives

PHIL 464 Philosophy and Film (Units: 3)
Prerequisite: ENG 114 or equivalent.

Philosophical concepts as treated in films, and philosophical issues raised by the nature of film. Philosophical concepts in ethics, epistemology, metaphysics, and aesthetics.

Course Attributes:
• UD-C: Arts and/or Humanities
• Global Perspectives
• Social Justice

PHIL 470 Environmental Ethics (Units: 3)
Prerequisite: Completion of GE Areas A and B4 requirements [formerly GE Segment I].

Exploration of how different philosophers, religions, and cultures understand our relationships to the environment. Applying ethical paradigms to the analysis of environmental problems and proposals for solutions.

Course Attributes:
• UD-C: Arts and/or Humanities
• Environmental Sustainability
• Social Justice
PHIL 494 Philosophy and Personal Development (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

For many philosophers, East and West, philosophy's basic task is to change our orientation to the world and, thus, how we live our lives. This course is devoted to studying and exploring different philosophical methods of personal development and enrichment.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities

PHIL 500 Philosophy of Religion (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

The nature and function of fundamental religious concepts and claims.

Course Attributes:
- UD-C: Arts and/or Humanities

PHIL 501 Judaism, Christianity, and Islam (Units: 3)
Prerequisite: ENG 114 or equivalent.

Beliefs, practices, social organization, and history of the three monotheistic religious traditions; importance of these traditions for European and Middle Eastern civilizations.
(This course is offered as JS 501, PHIL 501, and HUM 501. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

PHIL 502 World Religions (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

Major religions of mankind, their history and teachings: Hinduism, Buddhism, Confucianism, Taoism, Christianity, Judaism, and Islam.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

PHIL 509 The Buddhist Tradition (Units: 3)
Prerequisite: ENG 114 or equivalent.

An introduction to the basic teachings of Buddhism and the major Buddhist traditions in Asia. Among the topics to be discussed are ignorance, paths to enlightenment, meditation, morality, faith, and wisdom.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

PHIL 511 Chinese Philosophy and Religion (Units: 3)
Prerequisites: Sophomore or higher standing; and one lower-division composition course; or consent of instructor.

Major philosophical and religious traditions of China. Topics include the I Ching, Confucianism, Taoism, and Chinese Buddhism.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

PHIL 514 Kabbalah and Mysticism in the Jewish Tradition (Units: 3)
Prerequisite: ENG 114 or equivalent.

The spiritual life and various ways in which Jews have sought spiritual resources from Jewish tradition. Topics include: Kabbalah, Jewish renewal, feminist spirituality, and the Holocaust.
(This course is offered as JS 410 and PHIL 514. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities

PHIL 516 Islamic Philosophy (Units: 3)
Prerequisite: ENG 114 or equivalent.

Examines three interrelated issues: the purpose of philosophy, the good life, and the limits of human reason. Also examined is Islamic philosophy's confrontation with the Islamic traditions of theology, jurisprudence, and mysticism.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

PHIL 517 Islamic Mysticism (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

An examination of the mystical teachings of Sufism. This is not a survey course but a concentrated effort to approach some of the central Sufi ideas about humanity, God, and the structure of reality.

Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives

PHIL 520 Philosophy and Mysticism (Units: 3)
Prerequisite: ENG 114 or equivalent.

Examination of how "higher" or "mystical" states of consciousness have informed philosophy historically, and exploration of the implications of these views for epistemology, metaphysics, ethics and personal well-being.

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice
PHIL 525 The Nature of Religious Experience (Units: 3)
Prerequisite: ENG 114 or equivalent.
Nature of religious experience drawn from different religions and academic disciplines within the humanities and social sciences; investigation of the meaning of religious commitment in a secular world. (This course is offered as PHIL 525 and RELS 300. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities

PHIL 530 Selected Religious Thinkers (Units: 3)
Prerequisite: ENG 114 or equivalent.
Understanding and assessment of the views of one or more highly influential religious thinker(s). Thinker(s) to be specified in the class schedule. May be repeated when different thinkers are studied.

PHIL 540 Selected Issues in Religious Thought (Units: 3)
Prerequisite: ENG 114 or equivalent.
Study of one or more issues in religious thought that have been influential historically or currently stimulate debate. Issues to be specified in the class schedule. May be repeated when issues vary.

PHIL 552 Judaism: Religion and Text (Units: 3)
Prerequisite: ENG 114 or equivalent.
The manner and process of external/internal influences that move Jewish thought; the matters with which the rabbis and particular Jewish philosophers have concerned themselves. (This course is offered as JS 425 and PHIL 552. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities

PHIL 605 Metaphysics (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Metaphysical problems such as those of substance, cause, space, time, and God.

PHIL 610 Theory of Knowledge (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Theories of knowledge with attention to their contemporary formulations.

PHIL 611 Philosophy of Perception (Units: 3)
Prerequisite: ENG 114 or equivalent.
Philosophical problems in relation to perception with specific attention to contemporary formulations: role of sensations, nature of perceptual content, embodiment of perceptual experience.

PHIL 620 Philosophy of Mind (Units: 3)
Prerequisite: ENG 114 or equivalent.
Conceptions of the mental and of its relation to the physical, with attention to their contemporary formulations.

PHIL 621 Minds, Brains and Computers (Units: 3)
Prerequisite: ENG 114 or equivalent.
Contemporary theories of the mind as a brain process and as a computational process. Foundations and approaches in the cognitive neurosciences.

Course Attributes:
- UD-B: Physical Life Science

PHIL 630 Philosophy of Language (Units: 3)
Prerequisite: ENG 114 or equivalent.
Philosophical problems associated with language and symbolism with attention to their contemporary formulations.

PHIL 640 Actions and Practical Reasoning (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.
Practical reasoning is about how to act. What is the nature of actions, and how are they different from mere behavior? What is the nature of practical reasoning and how is it related to motivation?

PHIL 680 Field Project in Philosophy (Units: 1-3)
Prerequisites: Upper division standing or consent of instructor; may be taken with PHIL 699.
Supervised community or university service project related to the student's philosophical studies. Must be arranged through an undergraduate adviser and with an approved agency. (CR/NC grading only)

PHIL 681 Publishing Philosophy (Units: 1-3)
Prerequisite: Philosophy majors and minors or consent of instructor.
Supervised experience in various components of publishing philosophy journals and books; may focus on publishing journal articles/book chapters, editing volumes/special journal issues, book review editing, or publishing translations. May be repeated for a total of 6 units. (Credit/No Credit grading only)

PHIL 685 Projects in the Teaching of Philosophy (Units: 1-4)
Prerequisite: Completion of course in which the student will assist with a minimum grade of B.
Training in teaching philosophy is provided both by discussion of pedagogy with the instructor of a target course and by mentoring and other appropriate activities. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

PHIL 691 Reading Circle (Unit: 1)
Prerequisite: Satisfaction of the Graduation Writing Assessment Requirement (GWAR), 12 units of upper division philosophy courses, and consent of instructor.
Close reading of an important and difficult philosophical text, with attention to issues of interpretation.

PHIL 694 Philosophical Logic Workshop (Units: 3)
Prerequisite: PHIL 205 or consent of instructor.
Focus on puzzles and paradoxes raised in seminal philosophical papers in the twentieth century and their impact on analytic philosophy, with reference to the history of modern logic.
PHIL 695 Advanced Logic Workshop (Units: 3)
Prerequisite: Introduction to Symbolic Logic or consent of instructor.

Logic (theory and applications) beyond propositional/predicate calculus, such as sets and sequences, completeness, decidability and adequacy, incompleteness, many-valued logics, intentional logic, induction, conditionals, proof, contradiction, or validity.

PHIL 696 Directed Reading: Learning Outcomes (Unit: 1)
Prerequisite: Senior standing and consent of instructor.

Individualized course enables students, together with the faculty, to assess their learning outcomes. Students submit early and recent essays from previous classes and reflective essay on development of their own skills and knowledge. (CR/NC grading only)

PHIL 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor.

An advanced study of a selected philosophical problem under the direction of instructor. May be repeated.

PHIL 700 Seminar in Selected Problems (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Articulate, explore and assess proposed resolutions of one or more fundamental philosophical problem(s). Problem(s) to be specified in the class schedule. May be repeated when different problems are studied.

PHIL 702 Philosophy of Culture, Language and Society (Units: 3)
Prerequisite: Graduate standing in Philosophy or consent of instructor.

Philosophical examination of culture, language, and society, drawing on both continental and analytic traditions. Ontology and ideology as explored by, for example, Kant, Hegel, Adorno, Althusser, Austin, Butler, Foucault, Habermas, Horkheimer, Searle, and others.

PHIL 715 Seminar in Philosophical Writing (Units: 3)
Prerequisite: Admission to the graduate program in philosophy.

Advanced analytic, interpretive, and expressive skills essential to the writing, reading, and study of philosophy. Cannot be used to satisfy the “four-seminar” requirement.

PHIL 717 Projects in the Teaching of Philosophy (Units: 1-3)
Prerequisites: Two semester courses in the history of philosophy, a course in ethics, a course in symbolic logic, and an advanced course in epistemology or philosophy of science.

Individual projects under faculty supervision undertaken in conjunction with teaching assignments in undergraduate courses. Research and reports of research on the aims and methods of teaching philosophy to undergraduates. May be repeated for a total of 6 units.

PHIL 718 Teaching Philosophy (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.

Workshops and individual conferences prepare students to teach Philosophy in the Graduate Teaching Associate program. May be repeated. (May not be applied to the Philosophy M.A. degree.) (CR/NC only)

PHIL 720 Professional Development for Philosophers (Unit: 1)
Prerequisites: Restricted to Philosophy graduate students; approved ATC.

Survey of professional development strategies, including preparing applications to Ph.D. programs, standardized test preparation, professional engagement through conferences and publications, and applying philosophical skills to a variety of workplaces. (CR/NC only)

PHIL 725 Philosophical Foundations of Law (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

What is the nature of law? How is law different from mere coercion, and from morality? What place if any do moral considerations have in the workings of a legal system?

PHIL 760 Seminar in Philosophy of Art (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Problems and theories in contemporary philosophy of art, or aesthetics.

PHIL 770 Seminar in a Classical Author (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Understanding and assessment of the philosophical positions of one, or a pair of, highly influential philosopher(s). Philosopher(s) to be specified in the class schedule. May be repeated when different philosophers are studied.

PHIL 772 Seminar in a Classical School (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Exploration and critique of one or more influential method(s) or school(s) of philosophical thought. Method(s) or school(s) to be specified in the class schedule. May be repeated when different methods or schools are studied.

PHIL 781 Leading Philosophers in Philosophical Conversation (Unit: 1)
Prerequisites: Graduate standing or consent of instructor.

Focus on the current work of a leading philosopher who will visit class. Students engage in conversation with the philosopher, develop critiques of work, present their critiques to philosopher, who responds to each at length. Each offering will feature a different guest philosopher. May be repeated for a total of 3 units. (CR/NC only)

PHIL 795 Early Modern Philosophy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Analysis of two or more early modern philosophers, ranging from the canonical (e.g. Descartes, Leibniz, Locke, Hume) to the newly recovered (e.g. Astell, Reid). Attention to one or more particular themes: individualization, perception, science, faith, morality, women, and similar topics.

PHIL 796 Late Modern Philosophy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Analysis of two or more Late Modern philosophers. Readings from Early Modern philosophers and post-Kantians may also be included. Attention to one or more particular themes: mental representation, individuation, perception, science, and similar topics.

PHIL 805 Seminar in Metaphysics (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

How to do metaphysics. Approach or topic to be specified in the class schedule. May be repeated when different approaches to or topics in metaphysics are studied.

PHIL 810 Seminar in the Theory of Knowledge (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Problems in epistemology.
PHIL 811 Seminar in Philosophy of Perception (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Fundamental issues in the philosophy of perception, such as nature and cognitive function of perceptual content. Investigation of mutual relevance of philosophical debates on perception and studies in the cognitive sciences.

PHIL 820 Seminar in the Philosophy of Mind (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
In-depth study of important issues in the philosophy of mind, such as intentionality, mind/body relation, consciousness, thought, and perception.

PHIL 830 Seminar in Philosophy of Language (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Philosophical problems associated with language and symbolism, with in-depth study of recent advances in the field.

PHIL 850 Seminar in the Philosophy of Science (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Problems of philosophy of science.

PHIL 851 Feminist Ethics and Political Philosophy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Central themes, developments, and debates in feminist ethics and political philosophy and their critiques of the mainstream canon. Relationship between feminist philosophy and current issues.

PHIL 852 Twentieth Century Metaethics (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Comprehensive introduction to and exploration of the history of metaethics in the twentieth century. Foundation for understanding current cutting edge philosophical work on metaethics.

PHIL 856 Normative Ethics (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of recent attempts to improve consequentialist and Kantian ethics. Consideration of the so-called anti-theory stance in ethics, according to which systematic ethical theorizing is counter-productive and should be avoided.

PHIL 857 Philosophy of Action (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
What happens when a person acts? How is action different from mere behavior? Does the difference lie in the degree to which a person exercises control or autonomy over his behavior? How is autonomy related to normative reasoning?

PHIL 858 Contemporary Political Philosophy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Investigation of salient issues in contemporary political philosophy.

PHIL 881 Advanced Philosophy Publishing (Units: 1-3)
Prerequisite: Graduate standing in Philosophy or consent of instructor.
Supervised experience in various components of publishing philosophy journals and books; may focus on publishing journal articles/book chapters, editing volumes/special journal issues, book review editing, or publishing translations. May be repeated for a total of 6 units. (CR/NC only)

PHIL 890 Seminar In Current Issues in Philosophy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Study of one or more philosophical issue(s) that currently stimulate excitement and debate in the field. Issue(s) to be specified in the class schedule. May be repeated when different issues are studied.

PHIL 891 Graduate Reading Circle (Unit: 1)
Prerequisites: 6 units of graduate level Philosophy courses and consent of instructor.
Close reading of an important and difficult philosophical text, which pays attention to place of text in history of philosophy and to issues of interpretation. May be repeated for a total of 3 units. (CR/NC grading only)

PHIL 896 Directed Reading in Fundamental Philosophical Texts (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Directed reading in depth and detail of fundamental philosophical texts. Course culminates in a written examination after end of semester but before beginning of subsequent semester.

PHIL 898 Master's Thesis (Units: 3)
Prerequisites: Advancement to candidacy (ATC) for the Master of Arts in Philosophy. Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC only)

PHIL 899 Independent Study (Units: 1-3)
Prerequisite: Consent of the graduate major adviser and the supervising faculty member.
Study is planned, developed, and completed under the direction of a member of the faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition. May be repeated.
Physical Therapy (PT)

PT 700 Multisystem Pathokinesiology (Units: 4)
Prerequisites: Restricted to graduate Physical Therapy students; PT 201, PT 202, PATH 135.

An integrated approach to the pathological, anatomical, evaluation, treatment and management considerations related to patients with multi-systems dysfunctions, with a focus on physical therapy practice in the acute care environment. Long-term management, adaptive equipment/procedures, and preventative aspects of care are also discussed.  
Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade; no CR/NC allowed; RP)

PT 704 Education, Health Promotion, Wellness, and Prevention in Physical Therapy (Units: 2)
Prerequisite: Restricted to graduate Physical Therapy students.

Principles of communication, learning, and memory affecting physical therapists’ roles as an educator in individualized patient and caregiver instruction, staff development programs, community health, wellness, and prevention programs. (Plus-minus letter grade; no CR/NC allowed; RP)

PT 705 Administration and Organization in Physical Therapy (Units: 2)
Prerequisite: Restricted to graduate Physical Therapy students.

Specific administrative and planning skills required for physical therapy practice in various settings. Quality assurance, documentation, personnel and fiscal management, planning, contracting, health services administration, health care team, professional and medical-legal issues. (Plus-minus letter grade only)

PT 706 Structure, Function and Motion in Physical Therapy (Units: 2)
Prerequisite: Admission into the MS-DPT program.

Combine knowledge of human anatomy with basic structural and kinesiological principles to understand normal functional motion of the spine, trunk, and extremities in preparation for the analysis of abnormal human motion in the Neuromusculoskeletal Pathokinesiology PT course series. Classwork, 1 unit; laboratory, 1 unit. (Plus-minus letter grade only)

PT 710 Neurological Pathokinesiology I (Units: 4)
Prerequisite: Restricted to graduate Physical Therapy students.

Pathokinesiological and neuromotor principles applied to physical therapy assessment and intervention for neurological dysfunction; physical rehabilitation of adults with neurological impairments, limitations, and disability from trauma, tumors, vascular problems, infectious or degenerative diseases. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

PT 711 Neurological Pathokinesiology II (Units: 3)
Prerequisites: Restricted to graduate Physical Therapy students; PT 710.

Pathokinesiological and neuromotor principles applied to examination, evaluation, diagnosis, prognosis, plan of care and intervention of neurological dysfunction in pediatric patients. Includes dysfunction from trauma, congenital defects, and degenerative diseases. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

PT 720 Cardiopulmonary Pathokinesiology I (Units: 2)
Prerequisite: Restricted to graduate Physical Therapy students.

Assessment and treatment of kinesiological/physiological dysfunction of cardiac and pulmonary systems. Physical rehabilitation or training for cardiac and/or pulmonary limitations arising from trauma, disease, congenital defect, or lifestyle. Classwork, 1 unit; laboratory, 1 unit. (Plus-minus letter grade only)

PT 735 Psychosocial Issues in Rehabilitation Sciences, Part I (Units: 2)
Prerequisite: Restricted to graduate Physical Therapy students.

Exploration of one’s individual biases, values, and judgments of psychosocial factors that influence patient and physical therapist interactions; identifying key psychosocial issues and providing intervention and support services where appropriate. (Plus-minus letter grade only)

PT 736 Ecological and Organizational Issues in Rehabilitation (Units: 3)
Prerequisite: Restricted to graduate Physical Therapy students.

Cultural, environmental, and legislative issues affecting accessibility of physical therapy and related services. Sociocultural issues relative to quality of health as a right; influences of political and fiscal climates on trends in models of health care delivery. (Plus-minus letter grade only)

PT 737 Psychosocial Issues in Rehabilitation Science, Part II (Unit: 1)
Prerequisite: Restricted to graduate Physical Therapy students.

Exploration of one’s individual biases, values, and judgments of psychosocial factors that influence patient and physical therapist interactions; identifying key psychosocial issues and providing intervention and support services where appropriate. (Plus-minus letter grade only)

PT 741 Musculoskeletal Pathokinesiology I (Units: 4)
Prerequisites: Restricted to graduate Physical Therapy students; PT 200, PT 201, PT 706.

Surface anatomy, basic structure, biomechanical principles applied to the understanding of normal and abnormal human motion in the lower extremities and to the analysis of physical function. Examination, evaluation, treatment skills for musculoskeletal disorders. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

PT 742 Musculoskeletal Pathokinesiology II (Units: 4)
Prerequisites: Restricted to graduate Physical Therapy students; PT 741.

Surface anatomy, basic structure, biomechanical principles applied to the analysis of normal/abnormal human motion and physical function in the spine, pelvis, upper extremities. Examination, evaluation, and treatment skills for musculoskeletal disorders. Classwork, 2 units; laboratory, 2 units. (Plus-minus letter grade only)

PT 743 Musculoskeletal Pathokinesiology III (Units: 3)
Prerequisites: Restricted to graduate Physical Therapy students; PT 741, PT 742.

Assessment and therapeutic techniques in management of complex patients with musculoskeletal problems. Evaluation and application of research. Problem-solving. Patient presentation; evaluation of new techniques. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)
PT 801 Clinical Clerkship I (Units: 6)
Prerequisites: Restricted to graduate Physical Therapy students; successful completion of year 1 coursework with minimum GPA of 3.0; full-time 8 week clinical affiliation.
Students participate in patient care, attend clinic meetings and seminars, present an in-service, write personal clinical goals, and reflections. (CR/NC only, RP)

PT 802 Clinical Clerkship II (Units: 6)
Prerequisites: Restricted to graduate students in Physical Therapy; successful completion of year 2 coursework with minimum GPA of 3.0; full-time 8 week clinical affiliation.
Students participate in patient care, attend clinic meetings and seminars, present an in-service, submit case reports, and write personal clinical goals, and reflections. (CR/NC only, RP)

PT 803 Clinical Clerkship III (Units: 6)
Prerequisites: Restricted to graduate Physical Therapy students; successful completion of year 2 coursework with minimum GPA of 3.0.
Full-time 8 week clinical affiliation. Students participate in patient care, attend clinic meetings and seminars, present an in-service, submit case reports, and write personal clinical goals, and reflections. (CR/NC only, RP)

PT 890 Research Seminar in Physical Therapy (Units: 3)
Prerequisites: Restricted to graduate Physical Therapy students; PT 253.
Research designs, problem-solving, methodologies, and data analysis for specific topics in basic and clinical physical therapy research. Implementation of one facet of an on-going project, under guidance of the principal investigator. (CR/NC only)

PT 899 Independent Study (Units: 1-3)
Prerequisites: Restricted to graduate students in Physical Therapy; consent of major adviser and supervising faculty member.
Independent study or research planned, developed, and completed under the direction of a faculty member. Open only to graduate students who have demonstrated ability to do independent work. May be repeated for a total of 6 units.

PT 908 Professional Colloquium (Unit: 1)
Prerequisites: Admission to DPT program and PT 208 (UCSF).
Topics relative to evidence based PT practice: ethics, human subjects, research, authorship, scientific writing; and to professional issues: legislation, direct access to PT services, and reimbursement for services. (Plus-minus letter grade only)

PT 910 Evidence Based Practice (Units: 4)
Prerequisites: Restricted to graduate Physical Therapy students; successful completion of PT 209 or the equivalent; or consent of instructor.
Students will continue the evidence-based review they started in PT 209, performing a meta analysis to answer their own research question. Students will present their findings orally and in a publication-style manuscript for the DPT culminating experience. (Plus-minus letter grade only)

PT 920 Case Reports I (Unit: 1)
Prerequisite: Restricted to graduate Physical Therapy students.
Research and preparation of a case report on the diagnosis and treatment of a patient care problem relevant to physical therapy. (CR/NC grading only)

PT 921 Case Reports II (Units: 4)
Prerequisites: Restricted to graduate Physical Therapy students; PT 920.
Research, preparation, and presentation of a case report on the diagnosis and treatment of a patient care problem relevant to physical therapy. (Plus-minus letter grade; CR/NC not allowed; RP)

PT 930 Mentored Clinical Clerkship (Units: 6)
Prerequisites: Restricted to graduate Physical Therapy students; PT 801, PT 802, PT 803; minimum GPA of 3.0 in coursework to date.
In a clinical setting, students treat patients and work with experienced clinicians who provide mentoring and consultation for case reviews, physical therapy techniques and review of specialty areas; full-time 8 week clinical experience. May be repeated for a total of 12 units. (CR/NC only)

PT 960 Teaching Practicum (Units: 3)
Prerequisites: Acceptance into the Doctoral program in Physical Therapy; PT 704 or equivalent.
Develop necessary teaching skills for classroom, clinic, and laboratory. Students take this course at least twice and teach in the clinic at least one semester and in the classroom, one semester. May be repeated for a total of 12 units. (CR/NC only)

PT 990 Doctoral Colloquium (Unit: 1)
Prerequisites: Restricted to doctoral students in physical therapy and California licensure.
Forum for discussion on current research, application of research to practice. Students participate in all semesters in the doctoral program and are responsible for planning at least one session. Must be repeated for a total of 8 units.(CR/NC only)

PT 996 Directed Studies (Units: 3)
Prerequisite: Restricted to doctoral students in physical therapy.
Development of research skills in preparation for doctoral laboratory original research. Student will be in a laboratory setting with faculty, post-doctoral and pre-doctoral students. Consists of seminars, journal clubs, and laboratory assignments. May be repeated for a total of 9 units. (CR/NC only)

PT 997 Research (Units: 2)
Prerequisites: Restricted to doctoral Physical Therapy students; 9 units of PT 996 or UCSF equivalent; passing score on Oral Comp exam.
Collection of data on original research project under the direction of dissertation advisor and dissertation committee. Determination of objectives and evaluation criteria by advisor based on stage of the project. May be repeated for a total of 8 units. (CR/NC only)
Physics (PHYS)

PHYS 101 Conceptual Physics (Units: 3)
Prerequisites: High school algebra; score of 50 or above on entry level mathematics (ELM) examination, which must be taken prior to enrollment.

Basic concepts of force, motion, heat, sound, light, electricity, magnetism, and atoms. Suitable as preparation for PHYS 111 and PHYS 121.

Course Attributes:
- B1: Physical Science

PHYS 102 Conceptual Physics Laboratory (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 101.

Laboratory exercises in basic physics. Extra fee required.

Course Attributes:
- B3: Lab Science

PHYS 111 General Physics I (Units: 3)
Prerequisites: MATH 199 or equivalent; score of 50 or above on entry level mathematics (ELM) examination, which must be taken prior to enrollment; acceptable score on the physics readiness test, which must be taken before the start of the semester; concurrent enrollment in PHYS 112.

Mechanics, heat, and sound using algebra and trigonometry.

Course Attributes:
- B1: Physical Science

PHYS 112 General Physics I Laboratory (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 111.

Mechanics, heat, and sound. Extra fee required.

Course Attributes:
- B3: Lab Science

PHYS 121 General Physics II (Units: 3)
Prerequisites: PHYS 111; concurrent enrollment in PHYS 122.

Light, electricity, magnetism, atoms, and modern physics.

PHYS 122 General Physics II Laboratory (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 121.

Light, electricity, magnetism, atoms, and modern physics. Extra fee required.

PHYS 220 General Physics with Calculus I (Units: 3)
Prerequisites: High school physics or equivalent; satisfactory score on physics placement examination; MATH 226 with a grade of C or better; concurrent enrollment in PHYS 222, MATH 227.

Basic mechanics. Calculus is used in examples and problems. Optional tutorial discussion.

Course Attributes:
- B1: Physical Science

PHYS 222 General Physics with Calculus I Laboratory (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 220.

Experiments in mechanics. Extra fee required.

Course Attributes:
- B3: Lab Science

PHYS 230 General Physics with Calculus II (Units: 3)
Prerequisites: PHYS 220, MATH 227, with grades of C or better; concurrent enrollment in PHYS 232, MATH 228 recommended.

Introduction to electricity and magnetism. Calculus is used in examples and problems.

PHYS 232 General Physics with Calculus II Laboratory (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 230.

Experiments in electricity and magnetism. Extra fee required.

PHYS 240 General Physics with Calculus III (Units: 3)
Prerequisites: PHYS 220, MATH 227, with grades of C or better; concurrent enrollment in PHYS 242, MATH 228 recommended; recommended for Physics majors.

Wave motion, optics, and thermodynamics.

PHYS 242 General Physics with Calculus III Laboratory (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 240.

Experiments in wave motion, optics, and thermodynamics.

PHYS 320 Modern Physics I (Units: 3)
Prerequisites: PHYS 230, PHYS 240, MATH 228, with grades of C or better.

Introduction to special relativity, quantum phenomena, the Bohr model of the hydrogen atom, and the Schrödinger equation.

PHYS 321 Modern Physics Laboratory (Units: 2)
Prerequisite: Concurrent enrollment in PHYS 320.

Experiments on quantum physics and other phenomena of modern physics. Methods of data and error analysis. Classwork, 1 unit; laboratory, 1 unit.

PHYS 325 Modern Physics II (Units: 3)
Prerequisite: PHYS 320 with a grade of C- or better.

Physics of multi-electron atoms including L and S coupling schemes and optical spectra; elementary concepts of nuclear and elementary particle physics; use of four-vectors to analyze particle collisions and decays.

PHYS 330 Analytical Mechanics I (Units: 3)
Prerequisites: PHYS 230, MATH 245 or MATH 376, with grades of C- or better.

Vector analysis, fundamentals of statics, kinematics, and dynamics of rigid bodies and systems of particles.
PHYS 340GW The Big Bang - GWAR (Units: 3)
Prerequisites: ENG 214 or equivalent with a grade of C or better, PHY 320 or equivalent with a grade of C- or better.

Introduction to cosmology, from earlier human conceptions of the universe, through the hot big bang and inflation; early universe, nucleosynthesis, dark matter, dark energy, photon, and neutrino backgrounds, and observational tests of cosmology. (ABC/NC grading only)
(This course is offered as ASTR 340GW and PHYS 340GW. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- Graduation Writing Assessment

PHYS 360 Electricity and Magnetism I (Units: 3)
Prerequisites: PHYS 230, PHYS 330, PHYS 385, with grades of C- or better.

Electrostatics, including boundary-value problems, fields in polarizable media, magnetostatics.

PHYS 370 Thermodynamics and Statistical Mechanics (Units: 3)
Prerequisites: PHYS 240, PHYS 320, MATH 228, with grades of C or better.

Classical thermodynamics, kinetic theory, and elementary statistical mechanics. Applications may include quantum statistics, black-body radiation, paramagnetic spin systems, and low-temperature phenomena.

PHYS 385 Introduction to Theoretical Physics I (Units: 3)
Prerequisites: PHYS 240/PHYS 242 with grades of C- or better; concurrent enrollment in PHYS 330.

Principles of theoretical physics. Theoretical techniques applied throughout mechanics, electricity and magnetism, optics, relativity, quantum mechanics, etc. Applications of vector and tensor spaces, coordinate systems, and group theory.

PHYS 430 Quantum Mechanics I (Units: 3)
Prerequisites: PHYS 320, PHYS 360 (may be taken concurrently), PHYS 385, and MATH 245 or MATH 376, with grades of C- or better.

Postulates of quantum mechanics, one-dimensional problems, barriers and the WKB approximation, angular momentum, and hydrogen atom.

PHYS 431 Quantum Mechanics II (Units: 3)
Prerequisite: PHYS 430 with a grade of C- or better.

Problems in three dimensions, matrix mechanics, spin, application to atomic and molecular physics, perturbation theory, and scattering.

PHYS 440 Computational Physics (Units: 4)
Prerequisites: PHYS 320, PHYS 430 or PHYS 460, CSC 309 or CSC 210 (or equivalent by consent of instructor), with grades of C- or better.

Analysis and simulation of physical systems by computer. Differential equations, chaos theory, spin systems, Monte Carlo method, neural networks, and theory of computation. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)
(PHYS 740/PHYS 440 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

PHYS 450 Introduction to Solid State Physics (Units: 3)
Prerequisites: PHYS 320, MATH 245 or MATH 376, with grades of C- or better.

Crystal structure, x-ray diffraction, lattice vibrations, models of electrical conductivity; electron energy bands in crystals; electrons and holes in semiconductors.

PHYS 457 Introduction to Analog Electronics (Units: 4)
Prerequisites: PHYS 121 or PHYS 230, MATH 226, with grades of C- or better.

Linear network analysis techniques; phasors; diodes; bipolar junction transistors; field-effect transistors; operational amplifiers. Classwork, 3 units; laboratory, 1 unit.

PHYS 460 Electricity and Magnetism II (Units: 3)
Prerequisite: PHYS 360 with a grade of C- or better.

Maxwell’s equations; waves in free space and in dielectrics; reflection and refraction; radiation; special-relativistic transformation of the electromagnetic field.

PHYS 480 Introduction to Optics & Photonics (Units: 3)
Prerequisites: PHYS 230 and PHYS 240, PHYS 320 and PHYS 385 recommended, with grades of C- or better.

Ray optics, including optical fibers and instruments. Wave optics, including interference, diffraction, electromagnetic waves and polarization. Selected topics including beam optics, Fourier optics, photonic-crystal optics, laser basics, holography.

PHYS 490 Physics Project Laboratory (Units: 2)
Prerequisites: ENG 214 or equivalent with a grade of C or better, PHYS 321 with a grade of C- or better.

Experiments from the fields of atomic, nuclear, solid-state, and optical physics with emphasis on electronic instrumentation and computer-assisted data acquisition. Classwork, 1 unit; laboratory, 1 unit. (Effective Fall 2010, completion of PHYS 490 and PHYS 491GW with a grade of C or better culminates in the satisfaction of GWAR.) (ABC/NC grading only)

PHYS 491GW Advanced Laboratory II - GWAR (Unit: 1)
Prerequisite: PHYS 490 with a grade of C or better.

Advanced laboratory work in atomic, nuclear, solid state, and optical physics. Preparation of publication-quality reports and oral presentations on experiments. (Satisfies GWAR when taken Fall 2010 and thereafter, in sequence with PHYS 490 and completed with a grade of C or better.)

Course Attributes:
- Graduation Writing Assessment

PHYS 495 Introduction to Apparatus Fabrication (Unit: 1)
Prerequisites: Physics major; PHYS 490 with a grade of C- or better; consent of instructor.

Laboratory work with materials, machine tools (lathe, mill, etc.), and fabrication methods for the production of experimental research apparatus. Safety considerations.

PHYS 695 Culminating Experience in Physics (Unit: 1)
Prerequisite: Final semester of a Physics degree program.

Preparation of a portfolio of work completed in classes required for the degree. The final examination will be the ETS physics major field test.

PHYS 697 Senior Project (Units: 1-3)
Prerequisites: PHYS 490; consent of faculty adviser.

Participation in experimental or theoretical project under the direction of faculty member. Written report of specific observations and calculations required. May be repeated with consent of advisor.

1710
PHYS 699 Independent Study (Units: 1-3)
Prerequisite: Approval of department and consent of instructor.
Study in the laboratory or library under the direction of a member of the department. For students majoring or minoring in physics. Student must present a detailed written report of the work accomplished to the department. May be repeated for a total of 12 units.

PHYS 701 Classical Mechanics (Units: 3)
Prerequisites: Graduate standing; PHYS 460 (may be taken concurrently), PHYS 785 recommended.
Lagrangian and Hamiltonian mechanics; motion in arbitrary central force potentials; canonical transformation theory; Liouville's theorem; computer visualizations of phase space trajectories and topologies; collisionless Boltzmann equation applied to stellar dynamics; Jeans theorems, orbital anisotropy, and phase space distribution functions.

PHYS 704 Electricity and Magnetism I (Units: 3)
Prerequisites: PHYS 785, PHYS 460, PHYS 701 recommended.
Boundary-value problems in electrostatics, magnetostatics; Maxwell's equations and the causal structure of electrodynamics; plane waves and wave propagation.

PHYS 706 Quantum Mechanics (Units: 3)
Prerequisites: PHYS 701, PHYS 785.
Bound states, collision theory, matrix mechanics, symmetry and groups, perturbation theory.

PHYS 710 Advanced Laboratory Techniques (Units: 3)
Prerequisite: PHYS 490.
Techniques of electronic instrumentation, computerized data acquisition, digital signal processing, and data analysis designed to prepare the student for experimental research work in academic and industrial laboratories. Classwork, 2 units; laboratory, 1 unit.

PHYS 711 Semiconductor Devices and Technology (Units: 3)
Prerequisite: PHYS 450 with a grade of C or better.
Physical principles of semiconductor devices based upon mestructures. Introduction to integrated circuit fabrication technology structures.

PHYS 712 Physics of Plasmas (Units: 3)
Prerequisites: Graduate standing; PHYS 460; PHYS 701 or PHYS 785 recommended.
Fundamental properties of plasmas. Motion of charged particles in electromagnetic fields. Kinetic theory of plasmas, including the Boltzmann and Vlasov equations. Fluid theory of plasmas, including magnetohydrodynamics. Waves and instabilities. Applications to controlled thermonuclear fusion and space physics.

PHYS 714 Low-Temperature Physics (Units: 3)
Prerequisites: PHYS 360, PHYS 430, with grades of C or better.
Low temperature thermal and electrical behavior of materials; theories of superconductivity and superfluidity; superconducting devices including Josephson junctions, quantum interference devices and cryogenic phonon.

PHYS 715 Lasers and Quantum Optics (Units: 3)
Prerequisites: PHYS 430, PHYS 460.
Atom-field interaction, stimulated emission, dipole oscillations, the ammonia maser, semi-classical laser theory, coherent states, quantum laser theory, Fourier optics, and holographic interferometry.

PHYS 725 Special and General Relativity (Units: 3)
Prerequisites: Graduate standing; PHYS 701 (may be taken concurrently); PHYS 785 recommended.
Tensor formulation of special relativity with astrophysical applications. Riemannian geometry. The Einstein field equations applied to Mercury's orbit, black holes, gravitational lensing, cosmology, and interstellar travel. Computer visualizations of spacetimes and orbits.

PHYS 726 Quantum Field Theory (Units: 3)
Prerequisites: PHYS 430, PHYS 431, PHYS 706.
Relativistic wave equations; quantization of the scalar, Dirac, and Maxwell fields. The LSZ reduction formula for S-matrix elements. Path-Integral evaluation of time-ordered products. Tree-level Feynman diagrams in quantum electrodynamics, and an introduction to non-abelian gauge theory.

PHYS 730 Photonics and Nano Materials (Units: 2)
Prerequisites: Graduate standing or PHYS 230, PHYS 240, PHYS 320, PHYS 360.
Physical principles and cutting-edge research on photonics, nanomaterials, and soft condensed matter physics. (Plus-minus letter grade only)

PHYS 740 Computational Physics (Units: 4)
Prerequisites: PHYS 320, PHYS 430 or PHYS 460, CSC 309 or CSC 210 (or equivalent by consent of instructor), with grades of C- or better.
Analysis and simulation of physical systems by computer. Differential equations, chaos theory, spin systems, Monte Carlo method, neural networks, and theory of computation. Classwork, 3 units; laboratory, 1 unit. (Plus-minus letter grade only)

PHYS 775 Statistical Physics (Units: 3)
Prerequisites: PHYS 370, MATH 376, PHYS 385.
Statistical methods in physics: probability, phase space, distribution functions, partition functions. Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Phase transitions, Monte Carlo method, transport theory. (Plus-minus letter grade only)

PHYS 785 Theoretical Physics (Units: 3)
Prerequisites: PHYS 360, PHYS 460 (may be taken concurrently).
Advanced concepts and techniques in mathematics applied to problems in physics. Applications in mechanics, electricity and magnetism, and fluids. (Plus-minus letter grade only)

PHYS 832 Instructional Methods in Physics (Units: 2)
Prerequisite: Graduate standing or consent of instructor; must have concurrent GTA appointment.
Instructional methods for the teaching of physics laboratories: the introductory lecture, laboratory safety procedures, supervision of laboratory students, proper handling of equipment and demonstrations, best practices in maintaining lab logsbooks and writing lab reports. Maybe repeated for a total of 4 units. (CR/NC grading only)
PHYS 885 Projects in Teaching Physics/Astronomy (Units: 1-3)
Prerequisite: Graduate standing.
Learning experience and pedagogical strategies and principles of teaching and learning physics and/or astronomy. One unit is required of students in their first GTA position. May be repeated for a total of 6 units. (CR/NC only)

PHYS 890 Introduction to Physics Research (Units: 1-3)
Prerequisite: Graduate standing.
Introduction to methods of physics research. May be repeated for a total of 5 units. (CR/NC only)

PHYS 891 Physics Research Design (Units: 1-3)
Prerequisites: Passed Level 1 Written English Proficiency Requirement and have research project approved.
Elements of Physics/Astronomy research proposals: literature review, project significance, and feasibility, materials and methods, budget, data analysis and presentation, statistical significance, reference notation. May be repeated for a total of 4 units.

PHYS 896 Directed Reading in Physics (Units: 1-3)
Prerequisite: Graduate standing.
Readings/tutorials to achieve better understanding of specific topics based on individual student need. Focus on review and integration of core concepts in preparation for the comprehensive oral examination. (Does not count toward MS degree requirements.) (CR/NC only)

PHYS 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered PHYS 898 (or in some cases, course number PHYS 890 - see program’s graduate advisor for further information). (CR/NC, RP)

PHYS 897 Research (Units: 1-3)
Prerequisite: Completed undergraduate major in physics.
Independent and original laboratory investigation under supervision of a staff member. May be repeated.

PHYS 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

PHYS 899 Independent Study (Units: 1-3)
Prerequisite: Approval of department and consent of instructor.
Study in the laboratory or library under the direction of a member of the department. For graduate students in physics. The student must present a detailed written report of the work accomplished to the department. May be repeated.
Political Science (PLSI)

PLSI 100 Understanding Politics (Units: 3)
Concepts and principles of political thought, action, and institutions.
Course Attributes:
- D1: Social Sciences
- Social Justice

PLSI 103 The Politics of Protest and Resistance (Units: 3)
The history of protest, how power has been resisted, protested and altered, the resources such movements can draw on and limitations?

PLSI 105 Principles of Government and Politics (Units: 3)
The individual's role in government and politics as active agents rather than observers, citizens rather than subjects, and the means for engaging in broad political questions and one's own position. Exploration of the various political relationships that define and motivate individuals.
Course Attributes:
- D1: Social Sciences
- Social Justice

PLSI 106 Capitalism, Socialism, and Democracy: Introduction to Political Economy (Units: 3)
Political-economic approaches to the analysis of questions each society must solve: governance, production, allocation, distribution, freedom, and equity. The development of contemporary market vs. non-market organization, political direction of economic activity, and political-economic struggles.
Course Attributes:
- D1: Social Sciences
- Social Justice

PLSI 150 Contemporary Moral/Political Issues (Units: 3)
Theories of the good life, of ethics, of rights, and of justice, through the examination of contemporary moral issues: capital punishment, affirmative action, abortion, racial and sexual equality, privacy, pornography, and environmental protection.
(This course is offered as PHIL 150 and PLSI 150. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- C2: Humanities
- Social Justice

PLSI 200 American Politics (Units: 3)
Governmental institutions, politics, and issues in the U.S. and California in historical, social, and cultural perspective.
Course Attributes:
- U.S. Govt CA State Local Govt
- D3: Social Sciences: US CA Gov

PLSI 216 The 2016 Presidential Election: Issues and Analysis (Units: 2)
Public issues in the Presidential election race. Topics may include, but are not limited to: health care and insurance, the economy, international affairs and the wars in the Middle East, the environment and climate change, same-sex marriage, free trade, and education. Experts on political campaigns will discuss the polls, media, the campaign, campaign financing regarding the Presidential contest, and how the Presidential race will impact Congressional and State races. (CR/NC grading only)

PLSI 250 Comparative Politics (Units: 3)
Governmental institutions, political processes, socio-economic development and issues in countries around the world.

PLSI 275 Introduction to Political Theory (Units: 3)
Competing traditions of political theory: the foundation of political thought; the nature and scope of politics.

PLSI 276 Public Lecture Series in Politics (Units: 2)
Public lecture series on current issues within the behavioral and social sciences. Course is designed for the general community and student body. May be repeated when topics vary. (CR/NC grading only)

PLSI 300 Scientific Inquiry in Political Science (Units: 4)
Prerequisites: PLSI 200 or equivalent; a course in critical thinking recommended.
Introduction to empirical research in political science. Topics include the philosophy of science, research design, and inferential statistics. Classwork, 3 units; laboratory, 1 unit.

PLSI 319 Cases in Comparative Politics (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of country case studies to be used as a basis for understanding broader themes of comparative politics. [Formerly PLSI 253]
Course Attributes:
- Global Perspectives
- Social Justice

PLSI 320 Political Forum (Units: 2)
Prerequisite: PLSI 200 or equivalent, or consent of instructor.
Focus on one or more political issues that are current and illuminate important aspects of American politics. Topic to be specified in Class Schedule. May be repeated on advisement when topics vary.

PLSI 321 Development and Foreign Policy--Africa (Units: 4)
Prerequisites: Upper division standing; ENG 214.
A comparison of the foreign policies of various African nation-states; in particular, a consideration of those policies as expressions of national frameworks, ideological perspectives, etc.
(This course is offered as I R 321 and PLSI 321. Students may not repeat the course under an alternate prefix.)

PLSI 322 Latin American Policy Analysis (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of the international relations and foreign policy-making systems of Latin American nations and an analysis of selected foreign policy problems facing Latin American decision-makers with oral and written reports.
(This course is offered as I R 322 and PLSI 322. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD:D: Social Sciences
- Global Perspectives

PLSI 325 Chinese Foreign Policy (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Examination of China's international relations and the actors involved in constructing it. Analysis of the factors influencing China's participation in international affairs. Assessment of the international realm's effect on Chinese foreign policy.
(This course is offered as I R 325 and PLSI 325. Students may not repeat the course under an alternate prefix.)
PLSI 328 Domestic and Foreign Policy: Post-Communist Regions (Units: 4)
Prerequisites: Upper division standing; ENG 214.
Development and subsequent dynamics of what used to be called the Soviet Bloc. Analysis of current relations in light of events in the post-World War II period.
(This course is offered as I R 328 and PLSI 328. Students may not repeat the course under an alternate prefix.)

PLSI 329 U.S.-Japan Politics (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
In the postwar period, U.S.-Japan relations have moved from the periphery of international politics to the center, yet our understanding of this development has lagged behind. The origins of the trade deficit, competition, and related economic and security questions.
(This course is offered as I R 329 and PLSI 329. Students may not repeat the course under an alternate prefix.)

PLSI 342 Strategy and War (Units: 4)
Prerequisites: Upper division standing; ENG 214.
War as an instrument of national policy. Causes of war and classical and modern strategies for winning it from Clausewitz to Herman Kahn. Strategic theory, games, deterrence, guerrilla warfare, counter-insurgency, weapons technology, and the political consequences of preparedness.
(This course is offered as I R 342 and PLSI 342. Students may not repeat the course under an alternate prefix.)

PLSI 351GW Political Theory: The Classical Tradition - GWAR (Units: 4)
Prerequisites: Upper division Political Science majors; ENG 214 or equivalent with a grade of C- or better; or consent of instructor.
Nature of the state, power and authority, forms of government, law and justice, leadership and citizenship, as presented in the writings of Plato, Aristotle, Cicero, and Machiavelli. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

PLSI 352 Political Theory: Reformation to Nineteenth Century (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Political obligation, sovereignty, liberty, equality, property, and revolution, as presented in the works of Hobbes, Locke, Rousseau, Burke, and Tocqueville.

PLSI 353 Political Theory: The Twentieth Century (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Changing nature of political theory since the mid-19th century; the impact of sociology, psychology, and existentialism on political speculation. Technology, totalitarianism, and the crisis of the modern political order. This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 353GW Political Theory of the Twentieth Century - GWAR (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better.
Changing nature of political theory since the mid-19th century; the impact of sociology, psychology, and existentialism on political speculation. Technology, totalitarianism, and the crisis of the modern political order. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

Course Attributes:
- Graduation Writing Assessment

PLSI 354 Politics, the Environment, and Social Change (Units: 4)
Prerequisite: PLSI 200 or consent of instructor.
Political impact of environmental problems and the challenges they present for American and international policy-making, values, and institutions.
Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability
- Social Justice

PLSI 355 Politics and Ethics of the Consumer Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Politics and ethics of consumption-oriented society; nature of industrial society; its structures, values, and consumption practices.
(This course is offered as PLSI 355 and PHIL 355. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Environmental Sustainability
- Social Justice

PLSI 356 Political Theories of Neoliberalism (Units: 4)
Prerequisite: Upper division standing.
Analysis of the theoretical and practical dimensions of neoliberalism; focus on political ramifications of neoliberalism, how it operates and how it can be resisted.

PLSI 357GW Political Movements: Lessons from Freedom Summer - GWAR (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better.
Examination of origins, strategies, theory and outcomes of the Civil Rights Movement in terms of their relevance to social and political social activism today. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment
PLSI 360 Development of American Political Thought (Units: 4)
Prerequisite: PLSI 200.
Political theories associated with movements in the development of the U.S. Persisting and recurring problems in political thought. This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 360GW Development of American Political Thought - GWAR (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better.
Political theories associated with movements in the development of the U.S. Persisting and recurring problems in political thought. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
- Graduation Writing Assessment

PLSI 362 Domestic & Transnational Sources of US Foreign Policy (Units: 4)
Prerequisites: ENG 214 or equivalent, I R 310 or PLSI 200, or consent of instructor.
The role of domestic and transnational actors in making US foreign policy. Examination of American culture, media, interest groups, social movements, corporations, and lobbying on policy outcomes. Transnational influences on US foreign policy. Impact of international events on Americans. (This course is offered as I R 362 and PLSI 362. Students may not repeat the course under an alternate prefix.)

PLSI 371 Marxist Political Theory (Units: 4)
Prerequisite: ENG 214.
Examination of the development of Marxist thought and its application; the writings of Karl Marx and its effect on Western and world thought since the 19th century in such diverse fields as political economy, sociology, philosophy, historiography, aesthetics, and numerous others.

PLSI 372 Critical Political Theory (Units: 4)
Prerequisite: ENG 214.
Focus on the critical tradition in political theory that responds to and differentiates itself from classical and modern canonical texts. (This course is offered as PLSI 372, HUM 372, and I R 372. Students may not repeat the course under an alternate prefix.)

PLSI 373 Essentials of California Politics (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Basics of California state and local politics for students from out of state (including international students) who have satisfactorily completed a course that fulfills the US government requirement, but not the California State and local government requirement. [Formerly PLSI 273]
Course Attributes:
- Calif State & Local Govt

PLSI 381 Political Theories of Sexuality (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
The ways political theory has conceived of, engaged with, and deconstructed notions of gender and sexuality. Twentieth century thought destabilized the concept of gender even as it produced a new “identity” queerness.
Course Attributes:
- UD-D: Social Sciences
- Social Justice

PLSI 382 Politics and Literature (Units: 4)
Prerequisite: ENG 214 or equivalent.
Examination of political themes in classical drama and contemporary novels. Possible authors include Sophocles, Shakespeare, Coetzee, and Tabucchi.

PLSI 386 Introduction to Critical Social Thought (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The tradition and development of critical social thought in interaction with social-economic, political conditions from Kant, Hegel, and Marx in the 19th century to 20th century Marxism, phenomenology, and feminism. (This course is offered as CST 300 and PLSI 386. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Social Justice

PLSI 387 Non Western Comparative Political Thought (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Comparative political thought as a site for interdisciplinarity across comparative studies, political theory, and philosophy. Central debates include the role of global citizenship, global culture, cross-cultural philosophical analysis, human and civil rights. This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
PLSI 387GW Non Western Comparative Political Thought - GWAR (Units: 4)
Prerequisites: Upper division Political Science major; ENG 214 or equivalent with a grade of C- or better.

Comparative political thought as a site for interdisciplinary across comparative studies, political theory, and philosophy. Central debates include the role of global citizenship, global culture, cross-cultural philosophical analysis, human and civil rights. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:

- Graduation Writing Assessment

PLSI 388 Politics and the Popular (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Examine the relationship between political theory on one hand, and experienced, common sense, and tradition, on the other. Do these forms need to be theorized into coherent ideology? What are the dangers of doing so?
Course Attributes:

- UD-D: Social Sciences
- Social Justice

PLSI 389 Latin American Revolutionary Societies (Units: 4)
Prerequisite: Upper division standing.

Revolution implies a dramatic break with the past, but revolutions actually develop slowly over time, calling upon shared histories that inspire and impede change. Examination of the extent to which Latin American revolutions lived up to the goals that they set down.

PLSI 392 Latin American Political Thought (Units: 4)
Prerequisite: Upper division standing.

Introduction to some of the most influential Latin American political thinkers including Bolivar, Marti, and Mariategui. Exploration of whether we can speak of Latin American political thought and what sort of silences doing so may entail.
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 392GW Latin American Political Thought - GWAR (Units: 4)
Prerequisites: Upper division standing; ENG 214 with grade of C- or better or equivalent.

Introduction to some of the most influential Latin American political thinkers including Bolivar, Marti, and Mariategui. Exploration of whether we can speak of Latin American political thought and what sort of silences doing so may entail. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:

- Graduation Writing Assessment

PLSI 393 Anarchist Political Theory (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Analysis of the basic theories and practices of anarchism from its classical to its contemporary forms. Focus on the relationship between theory and practice and the question of process and organization.
Course Attributes:

- UD-D: Social Sciences
- Social Justice

PLSI 394 Political Theories of Work, Labor and Free Time (Units: 4)
Prerequisite: Upper division standing

Examination of the tension between the desire to work and to be free from work looking at texts from liberalism, Marxism, feminism and critical theory. Questions to explore include the following: Has this tension always existed and how might it be overcome? Where and when did people begin to prioritize paid work over all else? What constitutes “work” and who decides? Is work different than labor? (This course is offered as PLSI 394 and LARB 394. Students may not repeat the course under an alternate prefix.)

PLSI 395 Political Theories of Pedagogy and Community Activism (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Exploration of the connection between radical pedagogy and activism from a political theory perspective.
Course Attributes:

- Social Justice

PLSI 401 The Political Economy of Sub-Saharan Africa (Units: 4)
Prerequisite: Upper division standing or the consent of instructor.

Examination of the politics surrounding issues of development, aid, and the effects of globalization on Sub-Saharan African countries. (Plus-minus ABC/NC, CR/NC)
PLSI 404 Politics of China (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Contemporary government and politics of the People's Republic of China with modest concern for the way the past has shaped the present. Main focus is on political institutions and political processes. (This course is offered as PLSI 404 and I R 404. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 405 The Politics of Fascism and Communism in 20th Century Europe (Units: 4)
Prerequisite: Upper division standing or consent of instructor

Examination of the social, political and economic conditions that led to the development of fascism and communism in Europe during the 20th century. Focus on how and whether these conditions reflect on our contemporary situation today. (Plus-minus ABC/NC, CR/NC)

PLSI 406 Radical Right Politics: The Rise of Far-Right Political Parties in Contemporary Europe (Units: 4)
Prerequisites: Upper division standing or consent of instructor.

Highlight the potential causes and implications of the rise in far-right political parties across Europe since 2008. (Plus-minus ABC/NC, CR/NC)

PLSI 407 Politics of Russia (Units: 4)
Prerequisite: Upper division standing.

Contemporary government and politics of Russia, the way the past has shaped the present. Political institutions, political processes, and ideologies. (This course is offered as PLSI 407 and I R 407. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 408 Mexican Politics and Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Peoples, politics, and cultures of Mexico; implications of rapid change in Mexico for California and the U.S. [CSL may be available] (This course is offered as LTNS 670 and PLSI 408. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

PLSI 409 Russia and World Order (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Introduction to theories of world order and Russia's role in it. Review of historical and contemporary foundations for understanding world order. Discussion of Russia’s role in various regional and global settings. (Plus-minus letter grade only) (This course is offered as I R 409 and PLSI 409. Students may not repeat the course under an alternate prefix.)

PLSI 410 Middle East Politics (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Government and politics of the Middle East and North Africa. Comparative political institutions, ideology, political culture, political economy, social movements, regional conflicts, and international relations.
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 411 East Asian Politics (Units: 4)
Prerequisite: Upper division standing or consent of instructor.

Government and politics of East Asia (China, Japan, South Korea, and Taiwan). Systematic comparison of nations utilizing common themes: political development, political institutions, political economy, political change. (This course is offered as PLSI 411 and I R 411. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 412 South Asian Politics (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Political development in the South Asian states; political institutions and processes; parties and election; leadership; current policies and problems. (This course is offered as PLSI 412 and I R 412. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• Global Perspectives

PLSI 415 Politics of India (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.

Contemporary government and politics in India, with attention to social and historical factors, political institutions, processes, and ideologies. Some focus on political economy and foreign policy issues. This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
PLSI 415GW Politics of India - GWAR (Units: 4)
Prerequisites: Upper division Political Science major; ENG 214 or equivalent with a grade of C- or better; or consent of instructor.
Contemporary government and politics in India, with attention to social and historical factors, political institutions, processes, and ideologies. Some focus on political economy and foreign policy issues. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
• Graduation Writing Assessment

PLSI 416 Ethnicity and Nationalism (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Issues and problems raised by the phenomena of ethnicity and nationalism, ethnic conflict, and efforts at conflict resolution in a comparative context.
(This course is offered as PLSI 416 and I R 416. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 417 Gender, Equality, and Politics: A Comparative Perspective (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Examination of gendered nature of political representation, employment, and welfare state policy in post-industrialized nations. Emphasis on different political and social arrangements that European governments and social movements have developed to accommodate the growing demand for gender equality.
(This course is offered as PLSI 417 and I R 417. Students may not repeat the course under an alternate prefix.)

PLSI 418 Political Transitions in East & Southeast Asia (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Examination of political transition theories and divergent patterns of political transition in East and Southeast Asia. Exploration of controversial issues associated with political transition and the prospects for democracy in these regions.
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 418GW Political Transitions in East & Southeast Asia - GWAR (Units: 4)
Prerequisites: Upper division Political Science major; ENG 214 or equivalent with a grade of C- or better.
Examination of political transition theories and divergent patterns of political transition in East and Southeast Asia. Exploration of controversial issues associated with political transition and the prospects for democracy in these regions. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
• Graduation Writing Assessment

PLSI 419 Comparative Political Economy (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Interplay between politics and economics and the interaction between states and markets. Comparison of major competing ideologies and modes of political economy in developed, developing, and communist/post-communist world with particular emphasis on Asian political economies.
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 420 State-Society Relations in the Middle East (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
State-society relations in the Middle East and North Africa in a comparative perspective. How different social groups interact with state to shape policies, influence political discourse, and pursue political goals. Sources of authoritarian rule and prospects for democratization.
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 420GW State-Society Relations in the Middle East - GWAR (Units: 4)
Prerequisite: ENG 214 or equivalent with a grade of C- or better.
State-society relations in the Middle East and North Africa in a comparative perspective. How different social groups interact with state to shape policies, influence political discourse, and pursue political goals. Sources of authoritarian rule and prospects for democratization. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
• Graduation Writing Assessment
PLSI 424 Social Movements (Units: 4)
Prerequisite: ENG 214 or equivalent.
Examines social movements and political action in comparative perspective. An examination of origins, tactics, and outcomes of social movements. [CSL may be available]
(This course is offered as PLSI 424 and SOC 424. Students may not repeat the course under an alternate prefix.)

PLSI 425 Imagining Power in the Middle East (Units: 4)
Prerequisites: Upper division standing; PLSI 410, PLSI 420, or equivalents; or consent of instructor.
Through film, literature, autobiography, and other forms of documentation and imagination, examines differing conceptions of power in Middle East countries. Topics include political, military, ideological, economic power; colonialism, independence, equality, nation-building, uprising, and revolution.
Course Attributes:
• Global Perspectives

PLSI 430 Israeli Democracy: Politics, Institutions, and Society (Units: 3)
Prerequisite: ENG 214 or equivalent.
Knowledge of Israel's political system, its origins, its formal structure, the way it functions, and its main attributes in comparison to other democratic political systems. Ideology, state and religion, and civil liberties.
(This course is offered as JS 430, I R 430, and PLSI 430. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

PLSI 431 Constructing Kurdistan (Units: 4)
Prerequisites: Upper division standing; PLSI 250 or PLSI 410 or HIST 605 or I R 323 or I R 324 or MEIS 300; or consent of instructor.
Examines Kurdish nation- and state-building efforts in Iraq and Turkey in the 20th and early centuries. Includes introduction to theories on nationalism, state formation, social movements, and ethnic conflict.
(This course is offered as PLSI 431 and MEIS 431. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• Global Perspectives

PLSI 435 Politics of Global Finance and Crisis (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
The development and role of late 20th and early 21st century financial technologies in modern market crises. Research and critical analysis of 21st century finance capitalism. Political and financial interactions, including limits and possibilities for controlling financial behavior.
(This course is offered as PLSI 435, I R 435, and FIN 435. May not be repeated under alternate prefix.)

PLSI 460 Topics in American Politics (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Exploration of a specific area of American politics ranging from political institutions such as Congress, the Presidency, and the Courts, to voting, political parties, the media and other critical aspects. May be historical or contemporary. Topic to be specified in Class Schedule. May be repeated when topics vary.

PLSI 461 Voting Behavior, Campaigns, and Elections (Units: 4)
Prerequisite: Upper division standing or consent of the instructor.
Examination of voter behavior, including the decision to vote, the choice of candidates, and partisan identification. Investigation of political science literature on campaign dynamics and strategy.

PLSI 462 Applied Public Opinion Research (Units: 4)
Prerequisite: ENG 214.
Public opinion research: data collection, survey construction, data management, data analysis, and data communication. [CSL may be available]

PLSI 463 The Politics of Immigration in the United States (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Examination of immigration policy and politics in the United States. Topics include causes of migration, development of federal, state and local policy, immigrant political participation and incorporation.
Course Attributes:
• Am. Ethnic & Racial Minorities
• Social Justice

PLSI 465 Reason, Passion, and Political Behavior (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Examination of the cognitive processes involved in the formation of political beliefs, and their link to political behavior. Emphasis on the connection of theoretical models with politics focusing on campaigns and voter choice.

PLSI 466 Black Lives Matter: Race and Social Movements (Units: 4)
Prerequisite: ENG 214 or equivalent.
Subordinate status of African/Americans and others in the U.S.; nexus between power, racism, and violence. Strategies for social change in terms of leadership, organization, and movements.
(This course is offered as PLSI 466 and AFRS 466 [formerly ETHS 466]. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

PLSI 467 Politics and Community Organizing (Units: 4)
Prerequisite: Upper division standing or consent of the instructor.
An overview of the role that community organizing has played throughout US history; and critical examination of the current state of community organizing today. [Formerly PLSI 390]
PLSI 473 California Politics and Government (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Policy-making and exercise of power within federal framework. State and local issues and institutions. [CSP may be available]
Course Attributes:
- Calif State & Local Govt
- Social Justice

PLSI 475 San Francisco Political Issues (Units: 4)
Prerequisite: Upper division standing.
Political mobilization and governance. Electoral processes. Economic, ethnic, and cultural conflicts. May be repeated with consent of the instructor. [CSP may be available]
(This course is offered as PLSI 475 and USP 485. Students may not repeat the course under an alternate prefix.)

PLSI 477 Congress and the Presidency (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Structure, roles, and functions of the legislative and executive branches of national government. Legislative-executive policy controversies. This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 477GW Congress and the Presidency - GWAR (Units: 4)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C- or better.
Structure, roles, and functions of the legislative and executive branches of national government. Legislative-executive policy controversies. (ABC/NC grading only)
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
- Graduation Writing Assessment

PLSI 478 Judicial Process (Units: 4)
Prerequisites: ENG 214, PLSI 200, PLSI 275, or equivalents.
Leadership and power in Supreme Court decision-making. Principles and meaning of the U.S. Constitution governing the powers and relationships of the branches and levels of the American political system. [Formerly PLSI 551]
Course Attributes:
- Social Justice

PLSI 480 Introduction to Urban Policy and Analysis (Units: 4)
Prerequisite: Upper division standing.
Political and institutional settings for policy making. Concepts and techniques of policy, planning, and administration. (This course is offered as PLSI 480 and USP 480. Students may not repeat the course under an alternate prefix.)

PLSI 485 Political Sociology (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4; or consent of instructor.
Examination of the social dimensions of power, particularly those embedded in institutions of the state. Exploring relations between state and society, social movements, political organization and civic participation, political culture, voting behavior, and citizenship. (This course is offered as SOC 485 and PLSI 485. Students may not repeat the course under an alternate prefix.)

PLSI 492 Research Methods (Units: 4)
Prerequisite: Upper division standing.
Problem formulation; research design; data collection, organization, and analysis; introduction to computer generated analyses; report writing and presentation; applied research. Classwork, 3 units; laboratory, 1 unit. (This course is offered as USP 492 and PLSI 492. Students may not repeat the course under an alternate prefix.)

PLSI 493 Data Analysis (Units: 4)
Prerequisite: PLSI 492/USP 492 or equivalent.
Statistical analysis for politics, public policy, administration, and urban studies. Uses, interpretation, and limitations. (This course is offered as PLSI 493 and USP 493. Students may not repeat the course under an alternate prefix.)

PLSI 500 Labor and Government (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of labor-government relations at local, state, and national levels. Consideration of labor’s political action in relation to legislative, executive, and judicial branches of government and in the electoral process; examination of government’s responses as they protect or restrict labor’s interest. (This course is offered as LABR 500 and PLSI 500. Students may not repeat the course under an alternate prefix.)

PLSI 512 Urban Politics and Community Power (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Political dynamics in the contemporary metropolitan context; bases and distribution of power in urban and suburban areas. Intergovernmental relations and urban political power. (This course is offered as PLSI 512 and USP 512. Students may not repeat the course under an alternate prefix.)

PLSI 513 Politics, Law, and the Urban Environment (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Law and the legal system as mechanisms for regulating urban development and protecting the environment; intervention in development and land use; environmental decay, conservation of open space, other related resources. Lecture, 3 units; activity, 1 unit. (This course is offered as USP 513, GEOG 668, and PLSI 513. Students may not repeat the course under an alternate prefix.)
PLSI 544 Women in the World (Units: 4)  
Prerequisites: Upper division standing and ENG 214.
Analysis of women's roles in political, social, and economic development of selected nations and in international relations; effect of global movement for women's rights. Case studies of female leaders and their impact on world affairs.  
(This course is offered as I R 544 and PLSI 544. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
- Social Justice

PLSI 552 Individual Rights and the Constitution (Units: 4)  
Prerequisite: PLSI 478 or consent of instructor.
Principles and meaning of the U.S. Constitution controlling the relationships between the individual and government.
Course Attributes:
- Social Justice

PLSI 553 Legal Issues (Units: 4)  
Prerequisite: PLSI 478 or consent of instructor.
Judicial decision-making, influence on the formulation of public policy, political influence on the judiciary, individual rights, the impact of decisions, legal reform.

PLSI 554 Separation of Powers and Federalism (Units: 4)  
Prerequisite: PLSI 478 or consent of instructor.
Leading Supreme Court decisions establishing the powers and limits on power of the Federal Courts, Congress, the President, and the States under the U.S. Constitution.

PLSI 560 Urban Poverty and Policy (Units: 4)  
Prerequisite: ENG 214 or equivalent.
Nature and causes of urban poverty. Theories of poverty and their policy implications. Role of education, employment and family status, gender and race; metropolitan location; global economic restructuring; anti-poverty policies and proposals; development of policy alternatives. [CSL may be available]  
(This course is offered as USP 560 and PLSI 560. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Social Justice

PLSI 561 Jurisprudence (Units: 4)  
Prerequisite: PLSI 478 or consent of instructor.
Philosophy of law. Relationship between law, morality, social and political institutions. Various schools of jurisprudence.  
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.

PLSI 561GW Jurisprudence - GWAR (Units: 4)  
Prerequisites: Upper division Political Science majors; ENG 214 or equivalent with a grade of C- or better.
Philosophy of law. Relationship between law, morality, social and political institutions. Various schools of jurisprudence. (ABC/NC grading only)  
This course has a GWAR approved format (noted by a GW suffix that follows the course number) and a non-GWAR format (no suffix). Students who complete the course in one format may not repeat the course under the other format. Students who complete the non-GWAR formatted course will not receive GWAR credit.
Course Attributes:
- Graduation Writing Assessment

PLSI 570 Urban Health Policy (Units: 3)  
Prerequisites: Upper division standing; ENG 214 or equivalent.
(This course is offered as USP 570, LABR 570, and PLSI 570. Students may not repeat the course under an alternate prefix.)

PLSI 580 Housing Policy and Planning (Units: 3)  
Prerequisite: Upper division standing.
Social, economic, and technical aspects of urban housing; market analysis, housing production, tenant/landlord relations, finance, government regulation, subsidies.  
(This course is offered as USP 580 and PLSI 580. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

PLSI 600 Washington, D.C. Internship (Units: 9)  
Prerequisites: Upper division standing; concurrent enrollment in a course in the major area of study; or consent of instructor.
Offers extensive exposure to selective aspects of the federal decision-making process. The Washington Center offers 35 hrs./week placement with weekly seminars and assemblies.

PLSI 603 Public Service Internships (Units: 3)  
Prerequisites: Upper division standing; concurrent enrollment in PLSI 604; consent of instructor.
Fieldwork in approved public, private, non-profit, or political organization under supervision of organization staff and faculty coordinator. May be repeated on advisement. [CSL may be available]  
(This course is offered as PLSI 603 and USP 603. Students may not repeat the course under an alternate prefix.)

PLSI 604 Internship Seminar (Unit: 1)  
Prerequisites: Upper division standing; concurrent enrollment in PLSI 603.
Analysis of internship experiences. May be repeated on advisement. [CSL may be available]  
(This course is offered as PLSI 604 and USP 604. Students may not repeat the course under an alternate prefix.)
PLSI 605 Senior Seminar in Applied Research Methods (Units: 4)
Prerequisites: Restricted to senior Political Science majors; all core courses in Political Science and a GWAR in the major.

Culminating experience focusing on advanced applied research methods, including research design and data analysis. Using skills students obtained in empirical methods they will apply those to address a research question on American politics they choose and develop. Lecture, 1 unit; laboratory, 3 units.

PLSI 606 Senior Seminar in American Politics (Units: 3)
Prerequisites: Restricted to senior Political Science majors; all Political Science core courses, a GWAR in the major.

Focus on the specialization and particular interests of the Professor in question in the field of American politics. Topic to be specified in Class Schedule. May be repeated when topics vary.

PLSI 607 Seminar in Comparative Politics (Units: 3)
Prerequisites: Restricted to Political Science majors and minors; PLSI 250.

Focus on the specialization and particular interests of the Professor in question in the field of Comparative politics. Topics to be specified in the Class Schedule. May be repeated on advisement when topics vary.

PLSI 608 Seminar in Political Theory (Units: 3)
Prerequisites: Restricted to Political Science majors and minors; PLSI 275.

Focus on the specialization and particular interests of the Professor in question in the field of political theory. Topics to be specified in the Class Schedule. May be repeated for credit when topics vary.

PLSI 609 Seminar in Public Law: Legal Issues (Units: 3)
Prerequisites: Restricted to Political Science majors and minors; PLSI 478.

Critical review and synthesis of Public Law, focusing on legal issues. Topic to be specified in the Class Schedule. May be repeated when topics vary.

PLSI 610 Judicial and Legal Internship (Units: 3)
Prerequisites: Upper division standing; interview required; concurrent enrollment in PLSI 611; consent of instructor.

Fieldwork in approved legal and judicial organizations under supervision of judges, lawyers, legal organization staff, and faculty coordinator. May be repeated for a total of 6 units on advisement.

PLSI 611 Judicial and Legal Internship Seminar (Unit: 1)
Prerequisite: Require concurrent enrollment in PLSI 610.

Analysis of internship experiences. May be repeated for a total of 2 units on advisement.

PLSI 612 Senior Seminar Study Abroad: At Beijing University (Units: 3)
Prerequisites: Upper division standing and consent of instructor.

Opportunity to enhance academic learning with study at Beijing University.

PLSI 620 Pre-law Peer Advising (Units: 2-4)
Prerequisites: Upper division standing; GPA of 3.0 or better; consent of instructor.

Law school admission procedures and LSAT; opportunities for financial aid of law-related careers; courses and events relevant to legal issues and legal service opportunities. May be repeated for a total of 8 units.

PLSI 660 The Roles of Nonprofit Organizations in Urban Life (Units: 3)
Prerequisite: Restricted to senior Social Work majors.

Analysis of non-profit organizations in social services: the arts, housing, environmental and community advocacy. The role of the board, laws, consumers and donors, income, volunteers, and decision-making. (Plus-minus letter grade only)
(This course is offered as S W 660, PLSI 660, and USP 660. Students may not repeat the course under an alternate prefix.)

PLSI 685 Projects in the Teaching of Political Science (Units: 1-4)
Prerequisites: Senior standing; PLSI 100, PLSI 200.

Reading and discussion in the teaching of political science. Responsibilities include working with supervising faculty member in preparing course materials, tutoring students, and conducting small discussion sections. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

PLSI 699 Independent Study (Units: 1-4)
Prerequisite: Consent of instructor, major adviser, and department chair.

Supervised study of a particular problem selected by the student with the advice of the instructor. Enrollment by petition.

PLSI 700 Research Methods (Units: 3)
Prerequisite: Graduate Standing.

Introduction to methodologies that pertain to designing a research project in political science. (Plus-minus letter grade only)

PLSI 708 College Teaching of Political Science (Units: 3)
Prerequisite: Classified graduate standing.

Planning and teaching of college-level political science courses. Supervised experience to be evaluated through examination of contemporary literature and practice.

PLSI 740 Seminar in American Politics (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

American government and politics: political parties, interest groups, presidency, legislative assemblies, judiciary, electoral behavior, and political opinion.

PLSI 742 Public Opinion, Elections, and Media (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Seminar seeks to evaluate key elements of the transformation of American politics by focusing on recent developments in political science that model contemporary public opinion, electoral and media processes. (Plus-minus letter grade only)

PLSI 743 Racial Politics and American Democracy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

How immigration impacts the practice of racial and ethnic politics in the U.S. Focus on Asian Americans, Blacks, and Latinos.

PLSI 744 U.S. Supreme Court in the Making of Public Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Focus on the political and policy-making powers of the U.S. Supreme Court. Topics include political jurisprudence, constitutional and statutory interpretation, the selection process, the decisional process, appellate process, and the impact of Supreme Court decisions.
PLSI 745 Post Civil Rights Period in American Democracy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

The substantive theoretical and methodological problems associated with the study of racial politics in the literature of political science. A particular focus is that of analyzing Black politics in the post civil rights era.

PLSI 746 Urban Politics and Power (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Urban politics including competing theories of power, racial and ethnic politics in the urban context, and various issues that concern cities, such as globalization, gentrification, and governance.

PLSI 760 Seminar in Comparative Politics (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Modernization and political development, development theory, bases of political power, and role of the state.

PLSI 762 Asian Transitions from Communism (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Comparative study of the political economy of transitions from communism in Asia, communist and the post-communist states—China, North Korea, Vietnam, Laos, and Cambodia.

PLSI 763 Comparative Welfare States (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of empirical and theoretical materials on the origins, developments, achievements, recent changes, and problems of the welfare state in Western Europe and the U.S. with an emphasis on class, gender, race analysis. (AB/NC grading only)

PLSI 764 Democracies and Democratization (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Theoretical and empirical analyses of the relationship between state and society in selected third world nations.

PLSI 765 Social Movements of the Islamic World (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examines social movements in different Muslim countries and societies, with an emphasis on the Middle East. Topics include social movement theory and comparative case studies of 20th and 21st century religious and national movements.

PLSI 766 State-Society Relations in the Non-Western World (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

State-society relations in the Middle East, Asia, Africa, South America, and elsewhere. Development of the modern state; how states and societies interact; how social groups limit and empower states.

PLSI 767 Indian Politics Seminar (Units: 3)
Prerequisite: Graduate standing.

Contemporary government and politics in India. Analysis of political institutions and processes, patterns of political mobilization and change. (Plus-minus letter grade only)

PLSI 768 The Politics of Dissent in Comparative Perspective (Units: 3)
Prerequisite: Graduate standing in political science or consent of instructor.

Exploration of political dissent; study of theories and cases concerning everyday forms of resistance, collective action, protest, social movements, political violence, and revolution. Particular but not exclusive emphasis on cases in the Middle East and North Africa.

PLSI 769 China's Environmental Crisis (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Crisis state of the environment in the largest country, by population, and second largest economy in the world: China; focus on different Chinese environmental problems from the most recent literature available.

PLSI 780 Seminar in Political Theory (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Literature of political thought. (Plus-minus letter grade only)

PLSI 781 Practicum in Teaching in Political Science In Higher Education (Units: 3)
Prerequisite: Classified graduate standing or consent of the instructor.

Focus on pedagogical techniques to be used by teaching assistants in higher education, as well as for possible work teaching in higher education after receiving the M.A.

PLSI 782 Colonialism, Gender and Scientific Racism (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Intellectual history of scientific racism, colonial regimes, and gendered oppression. Impact of colonialism on contemporary identities and contemporary approaches to knowledge; in particular, the museum, the household, the body, mission schools, and new forms of work.

PLSI 783 Postmodern Political Theory (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Intensive introduction to postmodern political theory. Starting with Nietzsche, examines the role of contemporary philosophy in terms of critique of grand narratives, the deconstruction of the subject, history and politics itself. (AB/NC grading only)

PLSI 785 Seminar on Rawls (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Study of the work of John Rawls, arguably the most influential western political theorist of our time; focus on his major work, A THEORY OF JUSTICE, as well as his final work, JUSTICE AS FAIRNESS: A RESTATMENT. (Plus-minus letter grade only)

PLSI 786 Great Thinkers: Walter Benjamin (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Walter Benjamin, one of the premier thinkers of the 20th century, and a major influence on figures such as Hannah Arendt, Jacques Derrida, Michel Foucault and others. To thoroughly examine Benjamin is to make inquiries into the basis of thought for the previous century as well as our own. (This course is offered as PLSI 786, GER 786, and HUM 725. Students may not repeat the course under an alternate prefix.)
PLSI 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered PLSI 898. (CR/NC, RP)

PLSI 898 Master's Thesis (Units: 3)
Prerequisites: Advancement to candidacy (ATC) for the master’s degree and consent of candidate's committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

PLSI 899 Independent Study (Units: 1-4)
Prerequisite: Consent of graduate major adviser, supervising faculty member, and department chair.

Study is planned, developed, and completed under the direction of a member of the departmental faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition.
Psychology (PSY)

PSY 101 Psychology of Personal Development (Units: 3)
Basic concepts in psychology are used to foster the student's understanding of his/her own personal development and life endeavor.

PSY 111 The Logic and Psychology of Critical Thinking (Units: 3)
Designed to improve students' skills in understanding/criticizing arguments, theories, and their own reasoning process. The aim is to apply an analytic approach to the evaluation of oral-written communication, and to their own problem-solving activities.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• A3: Critical Thinking

PSY 171 Quantitative Reasoning in Psychology (Units: 3)
Prerequisites: Satisfactory completion of ELM requirement; fulfills GE quantitative reasoning requirement.

Psychological statistics and measurement essential to understanding statistical and quantitative arguments. Classwork, 2 units; laboratory, 1 unit.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
• B4: Math/QR

PSY 200 General Psychology (Units: 3)
Basic methods and concepts of psychology which have broad academic relevance and which can be applied to the study of psychology as well as other academic disciplines. Psychology majors must take for a letter grade and earn a C or better to continue in the major. [CSL may be available]
Course Attributes:
• E1: Lifelong Learning Develop
• D1: Social Sciences

PSY 300 Current Issues in Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
Selected issues and controversies of current scientific and professional importance. Advanced study of behavior as a personal, social, and biological phenomenon, and treatment of psychology as a science and as a healing art.

PSY 303 Psychology: The Major and the Profession (Unit: 1)
Prerequisites: Restricted to upper division Psychology majors; must be taken in the first semester of the major.
Overview of the psychology major and the field of psychology. (CR/NC grading only)

PSY 305GW Contemporary Issues in Psychology - GWAR (Units: 3)
Prerequisites: Restricted to Psychology majors; ENG 214 or equivalent with a grade of C- or better, PSY 371 with a grade of C or better; completion of 60 units.
Topic to be specified in Class Schedule. May be repeated when topics vary. No more than 3 units may be applied toward the psychology major or minor. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

PSY 320 Sex and Relationships (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Explores the role of sexuality in traditional and emerging forms of intimate relationships.
(This course is offered as PSY 320 and SXS 320. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences
• Global Perspectives

PSY 330 Child Development (Units: 3)
Prerequisites: Upper division standing; PSY 200 or equivalent. Intended for non-psychology majors.
The development of the child from conception to adolescence. (Credit not given for both PSY 330 and PSY 431.)
Course Attributes:
• UD-B: Physical Life Science
• Social Justice

PSY 371 Psychological Statistics (Units: 3)
Prerequisites: Restricted to upper division Psychology, Child and Adolescent Development, and Liberal Studies majors; PSY 171, PSY 200, or equivalents with grades of C or better.
Statistical theory and techniques appropriate to psychology and related fields; statistical inference and the testing of hypotheses. Psychology majors must take for a letter grade and earn C or better. Classwork, 2 units; laboratory, 1 unit.

PSY 400 Introduction to Research in Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology, Child and Adolescent Development, and Liberal Studies majors; PSY 200, PSY 371, or equivalents with grades of C or better.
Integrates psychological research methods with statistical techniques. Theoretical, empirical and interpretive issues are examined within the fundamental methods of inquiry: observation, measurement of individual differences, surveys, and experiments. Classwork, 2 units; lab, 1 unit.

PSY 430 Adolescent Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology and Child and Adolescent Development majors, PSY 200 or equivalent, PSY 330 or PSY 431; or consent of instructor.
The physical, intellectual, emotional, and social development during adolescence.
PSY 431 Developmental Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology and Child and Adolescent Development majors; PSY 200 or equivalent.

Fundamental principles of developmental psychology; origin and development of behavior. (Credit not given for both PSY 431 and PSY 330.)

PSY 432 Cognitive Development: Language, Thinking, and Perception (Units: 3)
Prerequisites: Restricted to Psychology and Child and Adolescent Development majors; PSY 431; or consent of instructor.

Cognitive development is studied from two dominant approaches--Piagetian and information processing. The textbooks used are collections of articles by leading theoreticians and researchers in the areas of perception, attention, mental representation (episodic and semantic), and problem-solving.

PSY 433 Social, Emotional, and Personality Development (Units: 3)
Prerequisites: Restricted to Psychology and Child and Adolescent Development majors; PSY 431; or consent of instructor. (May be taken before, after, or concurrently with PSY 432.)

Advanced course in developmental psychology covering theory and data in the areas of emotional, social, and personality development over the life span.

PSY 434 The Psychology of Aging (Units: 3)
Prerequisites: Restricted to upper division Psychology and Child and Adolescent Development majors; PSY 200 or equivalent, PSY 330 or PSY 431, PSY 371; or consent of instructor.

Biological, cognitive, social, and emotional changes during the later adult years. Recent research and theory are studied from the perspective of life-span developmental psychology with a focus on the latter half of the life span. [Formerly PSY 630]

PSY 435 Behavior Problems of Children (Units: 3)
Prerequisite: PSY 330 or equivalent or consent of instructor.

Children's behavior disorders, child guidance facilities, and clinical methods used in the study and treatment of children with problems.

Course Attributes:
- UD-D: Social Sciences

PSY 436 The Development of Feminaleness and Maleness (Units: 4)
Prerequisites: Upper division standing; PSY 371; or consent of instructor.

Integration of biological, psychological, social, and cultural knowledge toward an understanding of the development of maleness and femaleness. A critical look at theories of sex-typing and sex differences in behavior, with attention to sex-role stereotypes and social issues. (This course is offered as PSY 436 and SXS 436. Students may not repeat the course under an alternate prefix.)

PSY 440 Social Psychology (Units: 3)
Prerequisites: Upper division standing; PSY 200, or equivalent.

Survey of theories, research, and applications in major areas of social psychology, including communication and social influence processes in interaction, group dynamics, attitudes, stereotyping and prejudice, altruism and aggression, person perception and social cognition, sex roles and sex differences, crowds, and social movements.

PSY 441 The Psychology of the Family (Units: 3)
Prerequisites: Restricted to upper division Psychology majors and students enrolled in the Conflict Resolution Certificate Program; PSY 200, PSY 371, or equivalent.

The family as a psychological group; the husband-wife relationship with special attention to the dynamics of pairs; the impact of the family on personality and mental health.

PSY 442 Health Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.

A critical review of the relationships between psychological variables and both physical and mental health. Combination of lectures, tests, reading of original research, and conducting an actual study in the field. Students gain a knowledge of the relationships between health and psychology and become critical readers of literature relating the two.

PSY 443 The Science of Happiness (Units: 3)
Prerequisite: Restricted to upper division standing Psychology majors; PSY 200, PSY 371.

Conceptual, experiential, and applied introduction to positive psychology.

PSY 450 Variations in Human Sexuality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Variations in sexuality: sexual identity, relationships, behavior, and fantasy; identification of personal and social problems associated with varied sexual lifestyles. (This course is offered as SXS 400, PSY 450, and SOC 400. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Social Justice

PSY 451 Theories of Personality (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.

Survey of the major contemporary theories of personality. Theoretical positions are compared and critically examined along various significant dimensions, including their relationships to the total field of psychology. Methods of personality assessment as related in theory construction.

PSY 452 Abnormal Psychology: Minor Variants of Personality (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.

The nature and development of emotional disturbances which result in a person's failure to adapt adequately in this society; contemporary theories of personality development as well as a clinical description of the neuroses.

PSY 455 Cross-Cultural Perspectives in Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors and students enrolled in the Conflict Resolution Certificate Program; PSY 200 or equivalent.

Cross-cultural behavioral, developmental, cognitive, and social data and research of psychological phenomena as they are differentially affected by culture and subculture. Emphasis on the diversity of parent-child relationships, role of women and men, adult personality and beliefs, attitudes, and values.
PSY 456 Psychology of Human Sexual Behavior (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Psychological aspects of human sexual functioning particularly pertaining to gender identity, pairing, sexual orientation, sexual intercourse, self-stimulation, reproduction, contraception, and abortion. Related social issues such as alternative lifestyles, changing sex roles, and recreational sex. (This course is offered as PSY 456 and SXS 456. Students may not repeat the course under an alternate prefix.)

PSY 461 Introduction to Industrial/Organizational Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors and students enrolled in the Conflict Resolution Certificate Program; PSY 200, PSY 371, or equivalent.
Application of psychological principles and methods in understanding human behavior at work, and to approach and solve problems in business and industry. Addresses such issues as: employee selection, training, and evaluation; working conditions; motivation, leadership, and organizational theory.

PSY 462 Personnel Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
The application of psychological principles to personnel selection and related practices in organizations. Designed for the psychology major interested in developing proficiency in personnel techniques.

PSY 463 Human Factors (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
A survey of methods and research in the study of the interface between human operators and machines. Applications include equipment design for computers, aircraft, automobiles, household appliances, and similar systems.

PSY 465 The Psychology of Work-Life Stress (Units: 3)
Prerequisite: PSY 200 or equivalent.
General understanding of basic concepts, mechanisms, and issues related to stress; examines basic factors in context of business organizations. Topics include employees' cognitive appraisal of organizational stressors; physiological, psychological, and behavioral outcomes; and individual differences and long-term consequences.

PSY 466 Training and Development in Organizations (Units: 3)
Prerequisites: Restricted to upper division psychology majors; PSY 200, PSY 371, or equivalent.
Application of principles of psychology in the development, delivery, and evaluation of training and development programs in work organizations.

PSY 472 Introduction to Legal Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology and Criminal Justice majors; PSY 200 or C J 300; or consent of instructor.
Topics include laws and the ethics of therapy, alternative dispute resolution, mental health aspects of criminology, police psychology, the insanity defense, treatment of prisoners, the psychological forces toward crime and delinquency, expert mental health testimony, eyewitness testimony, and jury behavior.

PSY 474 Psychology of Social Justice (Units: 3)
Prerequisites: Restricted to upper division Psychology and Criminal Justice majors; PSY 200 or C J 300.
Psychological explanations for structural barriers to equality and social justice through an exploration of the mainstream psychological literatures of procedural, distributive, retributive and restorative justice.
Course Attributes:
- Social Justice

PSY 475 Psychology of Policing (Units: 3)
Prerequisites: Restricted to upper division Psychology and Criminal Justice majors; PSY 200 or C J 300.
Psychological study of organizational processes and management of police agencies. Topics include causes and effects of psychological factors affecting police, and implications of military and community-service models of police management on police selection, stress, training, organization development, technology.

PSY 491 Learning (Units: 3)
Prerequisites: Restricted to upper division psychology majors; PSY 200, PSY 371, or equivalent.
Methods, findings, and theory in animal and human learning and memory.

PSY 492 Perception (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
Methods, theory, and analysis of sensations and perceptions; the study of the psychological and biological approaches to perception.

PSY 493 Motivation (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
Theory and experimental evidence on the origins and direction of behavior. Learned and unlearned drives, anxiety, curiosity, and emotions.

PSY 494 Cognitive Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
An introduction to the dominant paradigm in cognitive psychology—the information processing approach to understanding the nature of human intelligence.

PSY 495 The Psychology of Human Memory (Units: 3)
Prerequisites: Restricted to upper division standing Psychology majors; PSY 200, PSY 371.
Examination of fundamental theories and research in the study of human memory and explore their real life applications.

PSY 498 Cognitive Neuroscience: Psychological Models (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.
Prospects and potential limitations of studying cognitive psychological processes from the integrated perspectives of cognitive psychology, neuropsychology, neural network modeling, and neuroscience.
PSY 521 Introduction to Clinical Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.

The methods of clinical psychology, including case study techniques, psychodiagnostic evaluation, remediation of psychological distress. The current scope of professional practices in clinical psychology.

PSY 525 Community Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors and students enrolled in the Conflict Resolution Certificate Program; PSY 200, PSY 371, or equivalent.

Introduction to methods practiced within the community psychology and community mental health fields. A range of methods is presented along with the range of underlying assumptions and philosophies of psychological fieldwork. [CSL may be available]

PSY 531 Psycholinguistics (Units: 3)
Prerequisites: Restricted to upper division psychology majors; PSY 200 or equivalent.

Comprehensive introduction to psycholinguistics. Theory and research are examined in three areas of human functioning—comprehension, production, acquisition. In addition, mental representations of meaning, the relation between language and thought, and bidialectism and bilingualism are studied.

PSY 547 Social Conflict and Conflict Resolution (Units: 3)
Prerequisites: Restricted to upper division Psychology majors and students enrolled in the Conflict Resolution Certificate Program; PSY 200, PSY 371, or equivalent.

Review of theory and research concerning conflict between individuals and groups. Principles of perception, expectation, subjective expected utility, payoff matrices, prominence, communication restriction, and expectations of personality.

PSY 558 Field Services Seminar (Units: 2)
Prerequisites: Restricted to upper division Psychology majors and graduating seniors; PSY 371; must be taken concurrently with PSY 559.

Issues in the professional application of psychological principles in community service. May be repeated for a total of 4 units. [CSL may be available]

PSY 559 Psychological Field Service (Units: 1-3)
Prerequisites: Restricted to upper division psychology majors and graduating seniors; PSY 371; must be taken concurrently with PSY 558.

Supervised field services in cooperating community psychological agencies. May be repeated for credit. No more than 6 units may be applied to the psychology major or minor. [CSL may be available]

PSY 571 Intermediate Psychological Statistics (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 371 or equivalent with a grade of C or better.

Statistical theory and techniques applicable to various experimental designs and other forms of psychological research. Classwork, 2 units; laboratory, 1 unit.

PSY 581 Physiological Psychology I (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 200, PSY 371, or equivalent.

Background and contemporary research relating behavior to biological processes. Data on neural and hormonal systems are summarized and used in examining such complex behaviors as learning, perception, and motivation.

PSY 582 Physiological Psychology II (Units: 3)
Prerequisites: Restricted to upper division Psychology majors or graduate students in psychology; PSY 371, PSY 581, or equivalent; or consent of instructor.

Selected issues and research dealing with the biological basis of behavior. Students read intensively on a mutually agreed upon topic and report their findings for discussion and development in class sessions.

PSY 601 Theoretical Backgrounds in Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; PSY 371; 15 units of upper division courses in psychology.

Historical backgrounds and development of basic concepts in psychology in a theoretical and systematic context; contemporary schools and systems in psychology outlined.

PSY 645 Group Processes (Units: 3)
Prerequisites: Restricted to upper division psychology majors and students enrolled in the Conflict Resolution Certificate Program; PSY 200, PSY 371, or equivalent.

Practicum involving observation of interaction within the class and in outside groups, aimed at the investigation of the psychology of groups.

PSY 668 The Psychology of Leadership (Units: 3)
Prerequisites: Restricted to upper division standing; PSY 200 or equivalent.

Examination of classic and contemporary theories of leadership in psychology and related fields; Topics include leadership styles, personality, self-analysis and perspectives of leadership across diverse individual and groups.

Course Attributes:
- Global Perspectives

PSY 680 Peer Advising in Psychology (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; 1 year in residence; 12 psychology units completed; and GPA of 3.0 or better.

Prepare and deliver academic advising to undergraduates in psychology: academic policies and procedures. Individual advising 3 hours weekly. May be repeated for a total of 6 units. Classwork, 2 units; fieldwork, 1 unit.

PSY 685 Projects in the Teaching of Psychology (Units: 1-4)
Prerequisite: A minimum grade of B in the course the student will be assisting in or consent of instructor.

Training and experience in the teaching of psychology through fieldwork and instruction. Students work as Instructional Aides to a psychology instructor and receive training in teaching and learning principles as well as participate in teaching-related activities. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)
PSY 690 Future Directions for Psychology Majors (Unit: 1)
Prerequisites: Restricted to senior Psychology majors only; 25 units of psychology; Must be taken in semester student applies for graduation.

Web-based self-assessment of interests and goals, creation of a resume, and exploration of career options for psychology majors. (CR/NC grading only)

PSY 693 Proseminar I (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; selection as an honors candidate; concurrent enrollment in PSY 697.

First of a two-semester seminar with the principal goal of developing a detailed senior project proposal. Work here may include examination of literature reviews, theoretical contributions, methodological studies, experiments, and field studies and practical applications.

PSY 694 Proseminar II (Units: 3)
Prerequisites: Restricted to upper division Psychology majors; completion of Fall semester work in PSY 693 and PSY 697.

Continuation of PSY 693. Intended to facilitate and to provide evaluation of progress toward completion of the senior project. Completed senior project culminates the semester.

PSY 697 Senior Project Preparation (Units: 3)
Prerequisite: Concurrent enrollment in PSY 693.

Student develops an original project, including background material and theoretical substrate, and prepares a methodology for a paper suitable for presentation in PSY 693.

PSY 698 Senior Project in Psychology (Units: 3)
Prerequisite: Concurrently enrollment in PSY 694.

Student carries out the senior project and prepares a written report for presentation.

PSY 699 Independent Study in Psychology (Units: 1-4)
Prerequisite: Upper division standing or consent of instructor.

An intensive study of a particular problem in psychology under direction of a member of the faculty. Intended for students who have completed available course work in the area of special problem. May be repeated for a total of 4 units when problems vary. [CSL may be available]

PSY 721 Clinical Methods: Assessment of Intelligence and Perceptual-Motor Functioning (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; concurrent enrollment in PSY 729 or consent of instructor.

Problems in the assessment of mental and emotional characteristics of individuals. Discussions, demonstrations, and application of individual assessment techniques including the standard individual tests of intelligence for children and adults as well as neuropsychological, educational achievement, and perceptual-motor tests.

PSY 722 Clinical Methods: Personality Appraisal and Projective Techniques (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 721; concurrent enrollment in PSY 729; or consent of instructor.

Problems in the assessment and diagnosis of individual personality and its disorders. Discussions, demonstrations, and applications of standard appraisal techniques including projective tests.

PSY 723 Clinical Methods: Psychological Assessment (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program, or consent of instructor.

Methods of assessment of mental functioning of individuals, including clinical interviewing, psychological diagnosis, report writing, and the administration and interpretation of cognitive/neuropsychological batteries, personality inventories, and projective tests. Assessment considerations for children, older adults, and cross-cultural populations.

PSY 724 Clinical Issues: Drugs, Brain, and Behavior (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.

Examination of basic mechanisms and advances in psychopharmacology, neurological interventions for psychological disorders, and treatment approaches for substance abuse disorders.

PSY 728 Conference to Accompany Psychology Practicum (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; concurrently enrollment in PSY 729.

Issues in the practice of clinical psychology including alcohol and substance use, general conceptual framework, models of intervention, professional ethics and law, roles and responsibilities of psychotherapists. May be repeated for a total of 6 units.

PSY 729 Psychology Practicum (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; concurrent enrollment first in PSY 721 and then with PSY 722.

Practicum in the methods and procedures of psychological assessment, diagnosis, and prognosis and techniques of psychological intervention with individuals, couples, and families. May be repeated for a total of 6 units.

PSY 730 Seminar in Current Issues in Developmental Psychology (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.

Problems and issues in developmental psychology: new directions in theory, method, and research.

PSY 735 Seminar in Developmental Psychology (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.

Topic to be specified in Class Schedule. Intensive study of selected topics in developmental psychology. May be repeated for credit if different area of emphasis is selected.

PSY 737 Laboratory in Observation of Children's Behavior (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor; must be taken concurrently with PSY 739.

Observations and experimental studies of human behavior. Classwork, 2 units; laboratory, 1 unit.

PSY 739 Technical Writing for Psychological Journals (Unit: 1)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; concurrent enrollment in PSY 737.

Practicum on preparing written reports on observations of human behavior within American Psychological Association format. Laboratory.
PSY 740 Seminar in Social Psychology (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.
Critical examination of current theories and research in social psychology, emphasizing social influence processes and personality variables which may affect behavior in diverse organizational and informal settings, and exploring applications of social psychology in the design and assessment of social change.

PSY 742 Seminar in Survey Research (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.
Principles and methods of survey research are studied and applied in supervised field experiences covering the entire survey process, from research design to sampling, data collection, and preparation of a report.

PSY 751 Seminar in Current Trends and Issues (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.
New developments drawn from current overviews and symposia. Implications for revision of theory, practice, and experimental procedures. Both ethical views and scientific and applied methods are critically examined.

PSY 753 Seminar in Therapeutic and Developmental Change I (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.
Convergence of developmental theory and psychotherapeutic process, focusing on clinical theories relevant across the lifespan from infancy through old age, and end-of-life. Considerations of culture, SES, and other factors shaping development.

PSY 754 Seminar in Therapeutic and Developmental Change II (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 753.
Modern versions of psychodynamic theories incorporating family concepts, ethnicity, and community issues including cultural factors in the dynamics of spousal or partner abuse.

PSY 760 Seminar in Organizational Psychology (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 761 or equivalent; or consent of instructor.
Selected psychological theory and research findings applied to the study of human behavior in organizational settings.

PSY 761 Industrial and Organizational Psychology (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.
Current problems and problem-solving approaches in selected areas of personnel practices concerning the use and development of human resources in industrial, professional, and other applied fields.

PSY 762 Seminar in Industrial Psychology (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 761 or equivalent; or consent of instructor.
Theory, research, and methods from I/O psychology pertaining to personnel selection and related decisions in organizations, including job analysis, performance measurement, validation, selection strategies, and test administration.

PSY 765 Industrial Training Program Development (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program, consent of instructor.
Examination of the theoretical, methodological, and practical approaches to the development, installation, and evaluation of training programs in the modern work setting. Considers learning theory and research, training theory and techniques, and methods of assessing and evaluating programs.

PSY 766 Psychological Foundations of Organizational Change (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 761 or equivalent; or consent of instructor.
Psychological theory and research on group and organizational change processes, with attention to problems and methods of organizational change and assessment of organizational intervention outcomes.

PSY 768 Seminar to Accompany Field Experience in Industrial/Organizational Psychology (Units: 3)
Prerequisites: Graduate standing or consent of instructor; concurrent enrollment in PSY 769.
Experiences in field assignments are explored for theoretical and research implications. Ethical, professional, and inter-professional implications are considered.

PSY 769 Field Experience in Industrial/Organizational Psychology (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 760, PSY 761, PSY 762; consent of instructor.
Supervised field assignments for advanced graduate students in a variety of business, professional, and industrial settings. May be repeated for credit for a total of 6 units.

PSY 770 Research Methods and Techniques (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.
Seminar in research designs applicable to the systematic analysis of varieties of human behavior.

PSY 771 Analysis of Variance and Experimental Design (Units: 4)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; intermediate statistics; or consent of instructor.
Major analysis of variance designs used in psychological research are presented. Topics include introduction to use of a major statistical package. Brief introduction to use of the General Linear Model is presented. Students in the master's program in psychological research should take this course at the first opportunity.
PSY 772 Applications of Multiple Regression to Psychological Research (Units: 4)
Prerequisite: PSY 771 or consent of instructor.

Experimental designs using multiple regression/correlation methods. Classwork, 3 units; laboratory, 1 unit.

PSY 777 Statistical Analysis of Multivariate Data Using Computers (Units: 4)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; two applied statistics courses or equivalent.

Theory and application of multivariate models, illustrative assigned problems, and laboratory in computer data processing. An integration of explanations of linear statistical models, existing computer programs which accomplish multivariate linear analyses, and analyses of data collected in student's own research (e.g., M.A. thesis). Classwork, three units; laboratory, one unit.

PSY 792 Proseminar in Foundations of Contemporary Psychological Research (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program.

Contemporary theory and research in such basic areas of psychology as learning and motivation, sensory process and perception, physiological, developmental, social and personality, and clinical and abnormal. Each seminar topic is directed by a faculty member specializing in that area and accompanied by comprehensive and systematic readings. Students in the master's program in psychological research should take this course at the first opportunity. Lectures and discussion on criteria for the design, execution, analysis, and report of psychological research on animal and human subjects. (CR/NC grading only)

PSY 798 Research Colloquium (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.

Presentations and discussions of current or contemplated research projects. (CR/NC grading only)

PSY 799 Supervised Selected Research (Units: 2-6)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 770.

Experimental research under the direction of a member of the faculty. May be repeated for a total of 9 units.

PSY 821 Clinical Methods: Diagnosis and Advanced Psychopathology (Units: 3)
Prerequisite: Classified graduate standing in clinical or school psychology master’s program or School Psychology Credential Program.

Examines various approaches to the evaluation and treatment of major mental disorders including substance abuse disorders and disorders of childhood and adolescence. (Plus-minus letter grade only.)

PSY 822 Clinical Methods: Marital and Family Systems Theory and Therapy (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 821.

Characteristic interpersonal interactions including those involving substance abuse or partner abuse and how those appear in the clinical interview are studied from different theoretical viewpoints including assessment and intervention procedures. Conditions which promote psychological change in couples and families including same-sex relationships are studied from an interpersonal, familial, and sociocultural perspective. (Plus-minus letter grade only)

PSY 828 Conference to Accompany Advanced Psychology Practicum (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; concurrent enrollment in PSY 829.

Therapeutic process and change with diverse mental disorders and populations. Explorations of principles of recovery oriented care, case management, and collaborative treatment. May be repeated for a total of 6 units.

PSY 829 Advanced Psychology Practicum (Units: 3-6)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 729; concurrent enrollment in PSY 828.

Supervised advanced psychology practicum in clinical psychological evaluation and intervention. May be repeated for a total of 12 units.

PSY 839 Field Experience in Developmental Psychology (Units: 1-3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program or consent of instructor.

Supervised field experience with children and adolescents. May be repeated for a total of 4 units.

PSY 855 Seminar in Professional School Psychology (Units: 3)
Prerequisite: Restricted to graduate students in Psychology or School Psychology Credential Program and consent of instructor.

Roles, skills, and competencies of professional school psychologists as they apply to educational, career, developmental, and mental health needs of children and opportunities for working with these needs within the interpersonal, legal, and professional structure of the school.

PSY 857 Behavior Management (Units: 3)
Prerequisite: Restricted to classified graduate students in Counseling and Psychology or School Psychology Credential Program.

Behavioral, cognitive-behavioral, and ecobehavioral theory and intervention applied to human behavior change. Primary focus on classroom behavior management. (Plus-minus letter grade only) (This course is offered as COUN 719 and PSY 857. Students may not repeat the course under an alternate prefix.)

PSY 858 Conference to Accompany Psychology Internship (Units: 3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; concurrent enrollment in PSY 859.

Seminar in problems in the professional practice of psychology. May be repeated for a total of 6 units.
PSY 859 Psychology Internship (Units: 6)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; PSY 829 or equivalent.

Internship in the application of psychological principles and procedures including psychological evaluation, treatment. May be repeated for a total of 12 units.

PSY 891 Seminar in Selected Problems (Units: 3)
Prerequisite: Graduate students in Psychology or School Psychology Credential Program.

Special areas of psychological research and theory. May be repeated for a total of 6 units if different area of emphasis is selected.

PSY 895 Research Project (Units: 3)
Prerequisites: Consent of candidate’s committee chair; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

PSY 896 Directed Reading (Units: 3-6)
Prerequisite: Restricted to graduate students in psychology or School Psychology Credential Program.

Special problems in psychology, chosen on the basis of individual interests and studied under the direction of a member of the faculty. May be repeated for a total of 9 units.

PSY 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered PSY 895 and PSY 898. (CR/NC, RP)

PSY 898 Master’s Thesis (Units: 3)
Prerequisites: Restricted to graduate students in psychology; consent of candidate’s committee chair; and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

The student formulates, conducts, and presents an intensive research thesis which must be defended before a committee drawn from the psychology faculty. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only.)

PSY 899 Independent Study (Units: 1-3)
Prerequisites: Restricted to graduate students in Psychology or School Psychology Credential Program; consent of graduate major adviser and supervising faculty member.

Study is planned, developed, and completed under the direction of a member of the faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition (form available in the Psychology Office).
Public Administration (P A)

P A 700 Foundations of Governance and Management (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Introduction to the discipline of public administration and concepts in public administration, nonprofit administration, and public policy. History and theory of the field. Emphasis on basics of professional writing and oral presentations. (Plus-minus letter grade only)

P A 705 Design and Consumption of Research (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Course 1: Applications of research design and data analysis to problems in policy and administration in the public and non-profit sectors. First of a two-part sequence of courses. (Plus-minus letter grade only)

P A 706 Applied Data Analysis (Units: 3)
Prerequisites: Restricted to graduate students in Public Administration; P A 705.
Applications of data analysis to problems in policy and administration in the public and non-profit sectors. The second of a two-part sequence of courses. (Plus-minus letter grade only)

P A 707 Qualitative Data Analysis (Unit: 1)
Prerequisite: P A 705 or consent of instructor.
Examination of techniques and approaches to the analysis of data that is qualitative in nature.

P A 708 Qualitative Interviewing (Unit: 1)
Prerequisite: P A 705 or consent of instructor.
Examination of methods and protocols involved in conducting and analyzing interviews with qualitative results.

P A 709 Practicum in Statistical Software Applications (Unit: 1)
Prerequisite: P A 706 or consent of instructor.
Examination of statistical software applications.

P A 715 Policy Process and Civic Engagement (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Process and politics of policy making and implementation. Impact of economic, social, historical, legal, political, and administrative conditions. Interaction of citizens in civic engagement process. (Plus-minus letter grade only)

P A 720 Organization Design and Change Management (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Structures, goals, and behavior in organizations; focus upon organizational change and development. (Plus-minus letter grade only)

P A 722 Performance Management and Planning (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Strategic planning and performance measurement for public service organizations. (Plus-minus letter grade only)

P A 724 Economic Perspectives (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Macro- and microeconomic perspectives in society. Focus on application of tools in public policy decision making processes and economic impacts on public and nonprofit sectors. (Plus-minus letter grade only)

P A 725 Managing Human Capital (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Concepts, functions, issues, and skills associated with personnel management and human capital in public and non-profit organizations. (Plus-minus letter grade only)

P A 727 Program and Service Delivery (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Contracting process from contracting agency and contractor perspectives, project management, alternative and traditional forms of service delivery. (Plus-minus letter grade only) [CSL may be available]

P A 730 Resource Allocation and Management (Units: 3)
Prerequisite: Restricted to graduate students in Public Administration.
Budgeting process across governmental and non-profit sectors, political processes of budgeting. Budgeting, resource allocation, and budget analysis methods and computer applications. (Plus-minus letter grade only)

P A 740 Public Service Management (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Application of administrative and management systems to public and non-profit sector organizations. Assessment of new trends in the public service field.

P A 741 Emerging Trends in the Public Service (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
New trends, movements, and developments in the public and nonprofit sectors.

P A 743 Collaborative Government (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Examination of collaboration and networking in public affairs.

P A 744 Nonprofits, Public Policy and Society (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Focus on the vital role of nonprofit organizations in today's society as well as on the public policies that affect and influence that role.

P A 745 Perspectives on Nonprofit Management (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Social policy roles, economic and political dimensions, and administrative issues for non-profit organizations. Regulation, governance, and organizational management issues. [CSL may be available]

P A 746 Application of Organizational Learning in Nonprofits (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of how nonprofit organizations can learn by using results of performance measurement and program evaluation to improve outcomes. [CSL may be available]

P A 747 Organizational Ethics: Doing Good, Being Good (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Examination of ethical behavior in nonprofit organizations; overview of ethical theories; discussion of ethical values relevant to nonprofit practitioners and nonprofit organizations; and review of a code of ethics for nonprofit organizations.

[Formerly P A 710]
P A 748 Negotiation and Compromise (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Focus upon methods and techniques of negotiation and compromise in conflicted situations.

P A 750 Financial Management in the Public Service (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theoretical and practical aspects of financial management in both public and non-profit organizations.

P A 751 Pensions and Pension Administration (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Overview of major issues of state and local public retirement programs. Covers fundamental concepts and practices of pension management with special emphasis on pension benefit design, actuarial valuation and funding methods, financial reporting, and pension asset investment management.

P A 753 Decision Making in the Public Sector (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of decision making in different disciplines and their use in public policy making and agency decision making. Includes new research on ways individuals and organizations make policy decisions. Skill building on different techniques and tools for making public decisions.

P A 754 Comparative Perspectives in the Public Service (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of public and nonprofit administrative and managerial processes across countries around the world.

P A 755 Information and Knowledge in the Public Service (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Management and effective use of data, information, and knowledge in public and nonprofit sectors. Focus upon the organization, maintenance, use and successful transfer of knowledge to enable organizations to succeed in strategic goals.

P A 756 Data Mining and Visualization (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.
Examination of current data movements with trends in data mining and visualization.

P A 757 E-Government (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Overview and strategies for improving the development and effectiveness of public and nonprofit online services and information. Relevant policies and management issues.

P A 762 Leading Change Across Sectors (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Contemporary leadership theory and practice with attention to the unique concerns of public service; applications of leadership to initiating and managing change across sectors.

P A 763 Personal Leadership Development (Unit: 1)
Prerequisites: P A 720, P A 725, P A 762, or consent of instructor.
Focus on personal development of leadership potential and style.

P A 770 Policy Analysis (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Policy analysis and program evaluation used by legislatures and public sector agencies. Policy models, cost benefit evaluation techniques, evaluation research methods.

P A 775 Program Evaluation (Units: 3)
Prerequisites: P A 705, P A 706 or consent of instructor.
Evaluation design, measurement, impact analysis, project implementation and management, and the design and evaluation of requests for proposals and proposals themselves.

P A 776 Environmental Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Covers scope and theories of US and CA environmental policy. (This course is offered as P A 776 and GEOG 776. Students may not repeat the course under an alternate prefix.)

P A 777 Criminal Justice Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of the managerial processes, problems and policies particular to criminal justice agencies-policy, court and corrections.

P A 780 Urban Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Administrative environment, governmental system and structure, administrative innovations, and decision making in urban government in the U.S.

P A 781 Sustainable Development in Cities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Theories and strategies of sustainable urban development and management.

P A 783 Urban Housing Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of urban housing policy in a comparative perspective across localities (e.g., cities, regions, states, countries). Analysis of trends in housing markets and evaluation of the outcome of alternative government policy choices.

P A 784 Intergovernmental Relations (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Focus on the relationships (competition, conflict, cooperation and stalemate) between various levels of government and other governmental/quasi-governmental institutions. Focus on political, administrative and managerial.

P A 791 Prevailing Issues in Public Administration (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Exploration of prevailing issues in public administration with an emphasis on emerging theories and concepts in the field and applied analytic techniques. Topics to be specified in the Class Schedule. May be repeated for a total of 12 units as topics vary.
P A 795 Applied Field Experience (Units: 1-3)
Prerequisite: Restricted to graduate students in Public Administration.

Applied, project-based agency experience. Student works with a public, nonprofit, or voluntary agency to gain specific, substantive research or other professional skills to complement the MPA curriculum. May be repeated and included in ATC for up to 3 units.

P A 803 Public Affairs Internship (Units: 3)
Prerequisites: Graduate students in Public Administration Program; P A 700; consent of instructor.

Professional work experience: students will work 300 hours in a public or nonprofit agency under the supervision of a faculty member and an on-site work supervisor. [CSL may be available]

P A 890 Capstone Course in Public Administration (Units: 3)
Prerequisites: Advancement to candidacy for M.P.A. degree; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Case study analysis as the culminating experience option in fulfillment of the requirements for the master’s degree. (Plus/minus letter grade only)

P A 898 Master's Thesis (Units: 3)
Prerequisites: Advancement to candidacy (ATC) and consent of candidate's thesis committee, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

P A 899 Independent Study (Units: 1-3)
Prerequisite: Consent of graduate major adviser and supervising faculty member.

Study is planned, developed, and completed under the direction of a faculty member. Open to graduate students who have demonstrated ability to do independent work. Enrollment by petition. May be repeated for a total of 6 units.
Race and Resistance Studies (RRS)

**RRS 100 Introduction to Ethnic Studies (Units: 3)**
History, objectives, and philosophy of Ethnic Studies. Student's personal, educational, and career development in a pluralistic society and in an institute of higher education. [CSL may be available] (This course is offered as ETHS 100 and RRS 100. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**RRS 101 Introduction to Arab and Muslim Communities (Units: 3)**
Introduction to Arab and Muslim communities studies in U.S. and Americas and Asian and African ancestral homelands. Employing Arab, Muslim, Ethnic, Race and Resistance, Gender and Sexuality, American Middle East, Diasporas, Ethnicity Studies and Social Movement theory.

Course Attributes:
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**RRS 103 Introduction to Pacific Studies (Units: 3)**
Examination of historic and contemporary issues related to Pacific Islander communities in the United States across the Pacific Islander diaspora. (This course is offered as RRS 103 and AIS 103. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**RRS 110 Critical Thinking and the Ethnic Studies Experience (Units: 3)**
Basic skills involved in understanding, criticizing, and constructing arguments by using materials reflective of experiences of ethnic/racial groups in the U.S.
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
- A3: Critical Thinking
- Am. Ethnic & Racial Minorities

**RRS 201 SFU's Palestinian Cultural Mural and the Art of Resistance (Units: 3)**
Critical investigation of the roles public art plays in transnational social justice movements, historically and currently. Examination of the history and legacy of Palestine Cultural Mural at San Francisco State University.

Course Attributes:
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**RRS 212 Edward Said (Units: 3)**
Prerequisite: RRS 101.


Course Attributes:
- C2: Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**RRS 224 Arab-American History, Community, and Activism (Units: 3)**
Introduction to Arab-American history, community, and organizational development in the United States.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

**RRS 230 Muslims in America: Communities and Institutions (Units: 3)**
Examination of the emergence of identifiable Muslim communities through the U.S. and focuses on migration patterns, the ethnic makeup of such communities, gender dynamics, political identity, and conversion to Islam.

Course Attributes:
- Am. Ethnic & Racial Minorities
- Social Justice

**RRS 240 All Power to the People: Comparative Freedom Movements of the "Sixties" (Units: 3)**
Introduction to the history and comparative survey of the African American, Chicana/o, Native American, and Asian American protest/liberation movements of the "Long Sixties" (1945-1975). [CSL may be available] [Formerly ETHS 240]

Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Social Justice
RRS 250 Race, Ethnicity and Power in America (Units: 3)
Critical examination of political concepts, processes and constructions of power that center race and ethnicity within a comparative analysis of American ideals, institutions and laws. Includes a study of constitutional issues and state and local governmental processes. [Formerly ETHS 250]
Course Attributes:
- U.S. Govt CA State Local Govt
- D3: Social Sciences: US CA Gov
- Am. Ethnic & Racial Minorities
- Social Justice

RRS 255 Voices in Exile: Arab and Muslim American and Civil Liberties post-9/11/2001 (Units: 3)
Changes post 9/11/2001, focusing on how Arab and Muslim Americans are affected. The case of the LABI, Sami Al-Arian, and Rasmeh Odeh will be used as a case study to analyze how government actions have affected Arab and Muslim Americans’ civil liberties.
Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

RRS 260 Introduction to Arab and Arab American Feminisms (Units: 3)
Writings by Arab and Arab American feminists to explore assumptions on and about Arab and Arab American experiences in the United States from multiple geographical sites, spiritualities, occupations, sexualities, class backgrounds, and generations.
Course Attributes:
- Global Perspectives
- Social Justice

RRS 276 Race, Activism and Climate Justice (Units: 3)
Examination of the intersection of race, socio-economics, political ecology and climate change on a global scale; overview of the scientific evidence for anthropogenic causes and impacts; and exploration of environmental justice, political ecology, disparate impacts on different peoples and activism on global and local levels.
Course Attributes:
- B2: Life Science
- Am. Ethnic & Racial Minorities
- Environmental Sustainability
- Global Perspectives
- Social Justice

RRS 280 Race, Gender, and Science Fiction (Units: 3)
Science fiction as a way of examining intersections of race, gender, and sexuality. Includes histories such as slavery, removal, and colonization. Discussion of reproductive technologies. [Formerly ETHS 280]
Course Attributes:
- C3: Humanities: Literature
- Am. Ethnic & Racial Minorities

RRS 285 Race, Sports, and Society (Units: 3)
Examines connections between race, “politics” and high-profile professional sports in the United States and abroad. Multiple issues explored using interdisciplinary approach, including critical race theory and socio-historical and socioeconomic constructs. [Formerly ETHS 285]
Course Attributes:
- D1: Social Sciences
- Am. Ethnic & Racial Minorities

RRS 303 Health and Wellness among Pacific Islanders (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of issues of health and wellness among Pacific Islanders with an introduction to major health issues impacting Pacific Islanders at home in the Pacific to within the U.S. and various health disparities. Includes an examination of the diversity of community responses toward health and wellness.
Course Attributes:
- E1: Lifelong Learning Develop
- UD-B: Physical Life Science
- Social Justice

RRS 304 Decolonize Your Diet: Food Justice and Gendered Labor in Communities of Color (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Focus on food justice in communities of color addressing issues including sex/gender and food production, racism and attacks on traditional food systems, indigenous foodways, environmental racism, GMO contamination of heritage foods, urban food deserts, and impact of diseases and development on communities of color. (Plus-minus ABC/NC, CR/NC)

RRS 305 Arab American Art and Artists of the Diaspora (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the ethnic, religious, and artistic diversity of Arab American visual artists. Topics include politics, language, culture, identity, economics, and many other issues. (This course is offered as RRS 305 and ARAB 305. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives

RRS 310 Arab Revolutions and Social Movements (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the recent uprisings in the Arab world focusing both on the immediate events that sparked these revolutions as well as the historical, socio-economic, political and ideological factors that contributed to the political shifts in 2010-2011.
Course Attributes:
- UD-D: Social Sciences
- Global Perspectives
- Social Justice
RRS 312 Arab and Arab American Literary Expressions (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of Arab and Arab American women's experiences through interdisciplinary lens and utilization of multiple approaches to expand notions of literary expressions. (This course is offered as RRS 312 and ARAB 312. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

RRS 315 Arab-American Immigration, Society, Identity, and Culture
(Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of important political, social, and cultural events, that have occurred in the Arab world and influenced Arab migration to the U.S.; how Arabs have evolved at different levels in America, eventually leading to the creation of an Arab-American identity.
Course Attributes:
- Am. Ethnic & Racial Minorities

RRS 330 Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examines dynamics of race and racism by analyzing intersections of class, race, gender, and nationalism, including theoretical perspectives shaping the subfield of comparative race and ethnicity in sociology, theories of racial formation, constructivist theory, ethnic boundaries, assimilation, and ethnocentrism. [Formerly ETHS 330]
(This course is offered as RRS 330 and SOC 330. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

RRS 350 Race, Labor, and Class
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of historic and contemporary intersections between communities of color and struggles for economic justice. Labor (broadly defined) remains profoundly racialized. This racialized class struggle will constitute the center of gravity for this course. [Formerly ETHS 350]

RRS 360 Cultural Dialogues and Ethnic Literature
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Ethnic literature as a comparative dialogue between cultures, in relation to other forms of artistic expressions, and within the context of the humanities, cultural patterns, aesthetic experiences, and political activism. [Formerly ETHS 360]
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

RRS 370 Islamophobia: Roots, Development, and Contestation of Hatred
(Units: 3)
Prerequisite: ETHS 100 or RRS 100.
Examination of how limited conceptual frameworks color our understandings of history, race, gender, religion, and justice with regard to Muslims. [Formerly ETHS 370]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

RRS 375 Queer Arabs in the U.S.
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the place of queer Arabs in the U.S. in the larger context of queer people of color organizing in the U.S. and will also understand queer Arabs in the U.S. in the context of the international gay movement.
Course Attributes:
- Social Justice

RRS 380 Coloring Queer: Imagining Communities
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Interdisciplinary examination of the experience of queers of color in the U.S. through anthropology, sociology, history, literature, and cultural studies. Specific focus on racism, homophobia, transphobia, and intersectionality. [Formerly ETHS 380]
(This course is offered as RRS 380 and SXS 380. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

RRS 410 Grassroots Organizing for Change in Communities of Color
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.
An advanced examination of grassroots social change movements in communities of color in the U.S.; how they are organized; how they succeed and even fail; by combining social change theory, history, and practical contemporary approaches to grassroots social justice work. [CSL may be available] [Formerly ETHS 410]
(This course is offered as RRS 410 and SOC 410. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice
RRS 420 Arab American Identity: Memory and Resistance (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of emergent Arab American identity from the historical context of post-colonial processes including nationalism, culture, and politics. Anti-orientalist analysis utilizing texts from different subject areas including history, poetry, psychoanalysis, post-colonial studies, critical theory, and cinema. [CSL may be available] [Formerly ETHS 420]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

RRS 430 Arab Media Images in America: Impact on Arab Americans (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Historical and contemporary imaging of Arab people in their mainstream American media and its effects on Arab American communities and individuals. A look at stereotypes and negative Arab images in American film, television, literature, and journalism. [Formerly ETHS 430]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

RRS 433 Pacific Islanders in Film: Re-Presenting Oceana Through an Indigenous Lens (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the work of contemporary Pacific Islander filmmakers who dispute and subvert the prevailing ethnographic and Hollywood imagery of Oceania. Exploration of the use of media as a decolonizing practice and as a counternarrative to the ongoing racialization and gendering of Oceania in mainstream and globalized media.

RRS 435 National Security and the Racialization of Arabs and Muslims in North America (Units: 3)
Prerequisites: Upper division standing; RRS 100 or ETHS 100.
Examination of how U.S. and Canadian National Security policies have racialized and targeted members of Arab and Muslim communities since September 11, 2001. [Formerly ETHS 435]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

RRS 450 Contemporary Arabic and Arab American Literature (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Contemporary literature from Arab American and Arabic speaking communities and their diasporas. Exploration of the political and cultural context of the Arab region by using poetry and fiction as a foundation. [Formerly ETHS 450]
(This course is offered as RRS 450 and ARAB 450. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives

RRS 460 AIDS and People of Color in the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The political, psychological, social, and economic impact of AIDS/HIV infection on diverse cultural backgrounds. Prevention and educational strategies. (This course is offered as COUN 450, RRS 460, and SXS 460. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

RRS 480 Youth Culture, Race and Resistance (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Surveys how young people of color use popular culture to challenge social inequalities based on race, ethnicity, gender, sexuality, class and nationality. Students will gain theoretical tools to analyze youth culture and its relationship to social change. [Formerly ETHS 480]
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

RRS 490 Race, Performance and Social Justice (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Use of performance strategies to explore the challenges of gentrification and out-migration within Latina/o/Chicana/o and Black communities. Focus on "art for social change" techniques such as Everyday Life Performance, personal narratives, self-reflective performance, Living Newspaper, Theatre of the Oppressed, and Performance Art.

RRS 520 Race, Radicalism and Revolution (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Surveys diverse revolutionary movements and moments; theoretical and practical intersection of race with class, gender, sexuality and national/global oppression; role of culture and consciousness; relationship of "the revolution" to state, meaning of solidarity, leadership models and liberated visions of society/world. [Formerly ETHS 520]
RRS 566 Gender and Modernity in the Muslim and Arab Worlds (Units: 3)
Prerequisite: ENG 214 or equivalent.
Investigates implications of the project of modernity/modernization for
gender and sexuality in the Muslim and Arab worlds. By interrogating
dichotomies that oppose tradition to modernity, examines the
multifaceted ways in which gender identities are produced historically.
[Formerly ETHES 566]
(This course is offered as WGS 566 and RRS 566. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

RRS 571 Women, Class, and Race (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Effects of class division and racism on the experiences, self-images,
and social identities of women in U.S. Nature and relationships of
the ideologies which underlie these divisions. [Formerly ETHES 571]
Course Attributes:
• UD-C: Arts &/or Humanities
• Am. Ethnic & Racial Minorities
• Environmental Sustainability
• Global Perspectives
• Social Justice

RRS 580 Educational Equity (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Is education the great equalizer? Educational equity and policy issues,
including institutional racism, school finance, recruitment/retention of
under-represented students, language. [CSL may be available]
(This course is offered as LTNS 580, SOC 580, and RRS 580. Students
may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

RRS 600 History of People of Color in the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
History of the U.S. people of color, their experience in the development
of American society from the 1600s to present. Consequences of
domination and racism in thwarting economic interests, and responses to
limiting institutional arrangements.
(This course is offered as RRS 600 and HIST 466. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• U.S. History
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

RRS 620 Colonialism, Imperialism and Resistance (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of debates about postcolonial studies and the relevance
of such intellectual projects to the socio-cultural experiences in the
postcolonial world, such as the production of discourses, identification
patterns and collective action among the post-colonized.
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives
• Social Justice

RRS 625 Mixed Race Studies: A Comparative Focus (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to the field of mixed race studies from a comparative and
ethnic studies perspective. Exploration of various multiracial issues for
ethnic studies from the viewpoint of scholars and cultural expressionists
who are themselves of mixed-racial heritage. [Formerly ETHES 625]
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

RRS 630 Palestine: Ethnic Studies Perspective (Units: 3)
Prerequisite: Upper division standing.
Advanced seminar examines Palestinian diasporic experiences in an
historical and a comparative perspective. The rise, development, and
decline of a Palestinian resistance movement will be the center of
analysis. Seminar situated in post-colonial and diaspora/exile studies.
[CSL may be available] [Formerly ETHES 630]
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

RRS 655 Comparative Border Studies: Palestine and Mexico (Units: 3)
Prerequisite: ETHES 100 or consent of instructor.
Examination of debates and tensions in border studies utilizing case
studies from Palestine and Mexico; focus on the history and development
of the walls that U.S. and Israeli government are building and their impact
on displacing marginalized communities. [Formerly ETHES 655]
Course Attributes:
• Am. Ethnic & Racial Minorities
• Environmental Sustainability
• Global Perspectives
• Social Justice
RRS 657 South Asian Diaspora (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Uses transnational and comparative frameworks to examine South Asian immigration to various countries; how colonialism, nationalism, and the politics of race, gender, class, and sexuality shape diasporic identities and communities. [CSP may be available] [Formerly ETHS 657]
(This course is offered as RRS 657 and AA S 541. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

RRS 670 Making Whites: Race-making in America (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Evolution and implications of whiteness in America from colonial period to the present post-Civil Rights, multicultural era; includes the definition of whiteness and critical role of the racial construction of whiteness in the history of American racism and race relations.
(This course is offered as RRS 670 and HIST 462. Students may not repeat the course under an alternate prefix.)

RRS 690 Methods in Race and Resistance Studies (Units: 3)
Prerequisite: Upper division standing.

Introduction to research methods with a focus on critical ethnographic methodologies as a way of building coalitions among Latina/o/Chicana/o and Black communities facing gentrification and out-migration. Primary ethnographic strategies include fieldwork, observant participation, interviewing, and oral histories.

RRS 694 Community Service Learning: Praxis in Race and Resistance Studies (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

A community service learning activity course designed to engage students in experiential learning by collaborating with community partners that are involved in struggles for social justice, community empowerment, and equity within and/or across communities of color. May be repeated for a total of 6 units. [CSP may be available]

RRS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of adviser, instructor, and program coordinator.

Supervised individual study of a particular inter-ethnic problem in ethnic studies. May be repeated for a total of 6 units.
Recreation, Parks, and Tourism (RPT)

RPT 110 Critical Thinking and the Leisure Experience (Units: 3)
Introduction to basic concepts and principles of critical thinking. Subject matter includes identifying, differentiating, constructing, and evaluating arguments; recognizing fallacies; and applying formal and informal reasoning to the leisure experience. [Formerly RPT 120]
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)
Course Attributes:
- E1: Lifelong Learning Develop
- A3: Critical Thinking

RPT 115 Activity Director Training (Units: 3)
Training designed to prepare participants for the role of activity director at health care facilities. [Formerly RPT 110]

RPT 152 Aquatic Sports (Units: 3)
Topic to be specified in Class Schedule. Development of skills and techniques in aquatic related sports and leisure activities. May be repeated for a total of 12 units. Extra fee may be required.

RPT 161 Lake and Sea Kayaking (Unit: 1)
Prerequisite: Must be able to swim 25 yards.
Understanding basic theory, strokes, safety practices and skills development in lake and sea kayaking. Topics include strokes, boat handling, hazards, capsize recovery, trip planning and wildlife observation. May be repeated for 3 units for degree credit. Extra course fee may be required. (CR/NC only) [Formerly a topic under RPT 160]

RPT 162 Small Boat Sailing (Unit: 1)
Basic sailing theory, safety practices and development of skills and techniques in small boat sailing; knots, rigging, boat handling, docking and capsize recovery. Students must take a basic swim test (wearing a life jacket) prior to the first class. May be repeated for 3 units. Extra course fee may be required. (CR/NC only) [Formerly a topic under RPT 160]

RPT 163 Beginning Rock Climbing (Unit: 1)
Introduction to rock climbing and belay in both indoor and outdoor settings. Topics include knot tying, rope handling, hazards, equipment use and care, climbing techniques, anchor building, leave-no-trace climbing. Extra course fee may be required. (CR/NC only) [Formerly a topic under RPT 160]

RPT 164 Introduction to Back Country Skiing (Unit: 1)
Prerequisite: Ability to continuously run one mile.
Introduction to cross country and telemark ski equipment, techniques, snow characteristics, hazards, trip planning for back country skiing away from ski areas. Includes ski trip and overnight stay in Yosemite National Park. Extra course fee may be required. (CR/NC only) [Formerly a topic under RPT 160]

RPT 165 Nature Sampler Field Study and Service (Unit: 1)
Immerse yourself and help nature, parks and natural areas; choose from variety of volunteer projects and dates, gain hands-on experience, learn from agency professionals. Reflect on your experiences. (CR/NC grading only) [CSL may be available] [Service hours maybe used to satisfy pre-internship or degree experience requirements; consult your department advisor.]

RPT 166 Inclusive Shared Outdoor Adventures (Unit: 1)
Introduction to inclusion principles, activities, adaptive equipment, techniques, trip planning. Collaboration of students with and without disabilities working together so all have positive shared cycling, kayaking, and sailing experiences. Specialized adaptive recreation equipment provided. Extra course fee may be required. (CR/NC only) [Formerly a topic under RPT 160]

RPT 167 Women's Backpacking (Unit: 1)
Personal adventure programming philosophy, leadership, and outdoor recreation skills for women, through readings, planning and participating in hiking and backpacking trips. Extra course fee may be required. (CR/NC only) [Formerly a topic under RPT 160]

RPT 168 Walking Tours of San Francisco (Unit: 1)
Introduction to the basics of walking tour guiding, including tour design, preparation, and presentation. Focus on design and delivery of urban walking tours in San Francisco on a topic chosen by the student. May be repeated for a total of 3 units. (CR/NC only)

RPT 169 Playing and Learning Outside the Classroom (Unit: 1)
Experience engineering, enjoyment, self-development, leadership/ facilitation, benefits and barriers, environments and materials, modification and adaptation, wellness components, and other related concepts will be explored and examined through playing and facilitating experiential activities. May be repeated for a total of 3 units.

RPT 200 Foundations of Recreation, Parks, and Tourism (Units: 3)
Recreation, parks, and tourism as a discipline and profession; introduction to concepts, philosophy, history, and science; nature and scope of careers in for-profit, nonprofit, and public sectors; examination of issues and trends, and their implications to leisure systems and processes.
Course Attributes:
- E1: Lifelong Learning Develop

RPT 205 Enlightened and Sustainable Travel (Units: 3)
Culturally sensitive, low impact travel and tourism by individuals that engages travellers, protects the global environment and benefits local communities. Assessment of the adverse/beneficial impacts of travel. Development of trip plan incorporating enlightened travel principles and sustainable tourism goals.
Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences

RPT 210 Arts and Crafts for Leisure (Units: 3)
Arts and crafts skills for recreational and clinical/therapeutic purposes; the development of creativity and self-expression in community programs, resources for materials, leadership skills, and equipment use and maintenance are covered. Classwork, 2 units; laboratory, 1 unit. Extra fee required. [Formerly RPT 330]
Course Attributes:
- E1: Lifelong Learning Develop
- C1: Arts

RPT 220 Leisure Lifestyle Development (Units: 3)
Overview of leisure: with emphasis on how the optimal leisure experience can contribute to one's total well-being, acquiring leisure activity skills/ techniques, methods of evaluating and enriching one's personal leisure. Not open to recreation majors.
RPT 230 Growth Through Adventure (Units: 3)
Development of values and understanding of self through outdoor adventure activities. Influences of culture, history, fears, and myths on outdoor adventure activities. Introduction to selected outdoor skills. Survey of selected outdoor adventure activities in the Bay Area and Northern California. Extra fee required.
Course Attributes:
• C3: Humanities: Literature

RPT 240 Leisure and Society (Units: 3)
A critical behavioral and social analysis of recreation, parks, tourism, and related professions and disciplines. Introduction to theory, history, literature, and careers in the field. Examination of leisure trends and issues, and their implications to the leisure service delivery system.
Course Attributes:
• E1: Lifelong Learning Develop
• D1: Social Sciences

RPT 300 Leadership in Recreation, Parks, and Tourism (Units: 3)
Prerequisites: Upper division standing; RPT 200, or concurrent enrollment.
Leadership theory, self-assessment, intrapersonal and interpersonal communication, and group dynamics in recreation, parks, and tourism settings. Develop leadership competencies in cultural sensitivity, planning, safety/risk management, and problem-solving through experiential learning, influence of power and ethics on decision-making.

RPT 325 Information Technology in Recreation, Parks, and Tourism (Units: 3)
Prerequisite: RPT 200 or concurrent enrollment, or consent of instructor.
Knowledge and skill development in information technology and literacy; introduction to APA writing style, research, data collection, analysis, and reporting; and application of word processing, presentation, spreadsheet, and specialized software used in the recreation, parks, and tourism profession. [Formerly RPT 225]

RPT 340 Conference, Event Planning, and Management (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Organizing, planning, and managing conferences, conventions, and special events: site and faculty selection, scheduling, programming and theme development, exhibit management, registration, and overall meeting services.

RPT 350 Facilitating Wellness Through Leisure (Units: 3)
Prerequisite: Upper division standing.
Examination of concepts, processes, and applications related to leisure and wellness. Origin, development, and expression of leisure in individual behavior and its relationship to facilitating wellness. [Formerly RPT 650]

RPT 358 Advanced Sailing Theory and Practice (Units: 3)
Prerequisites: RPT 152 or equivalent and consent of instructor.
Advanced sailing techniques, competitive sailing, regattas, rule interpretations and supervised experiences including participation in IICCSA regattas. Guest lectures on rule interpretations, tactics, and navigations. May be repeated for a total of 12 units. Extra fee may be added.

RPT 360 Outdoor Recreation Leadership (Unit: 1)
Prerequisites: RPT 400 and consent of instructor.
Advanced students serve under individual faculty supervision in organizing and conducting outdoor recreation programs. Open only to majors and minors in recreation. May be repeated twice on advisement.

RPT 365 White Water Raft Guiding (Units: 3)
Prerequisites: Previous whitewater experience; ability to swim 100 yards and tread water for 5 minutes; CPR and First Aid.
Skills of white water raft guiding. River hydraulics, water reading, raft maneuvering, equipment care and maintenance, environmental ethics, safety and emergency procedures, trip planning and organization. Classwork, 1 unit; laboratory, 2 units. Extra fee required. (CR/NC grading only)

RPT 370 Principles of Nonprofit Administration (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Principles of nonprofit agency administration. Understanding of philosophical, historical, and social context; volunteer movement, funding, governance, organization, and management of nonprofit agencies; trends; professional development and employment opportunities.

RPT 380 Developmental Play Processes (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Concepts and issues related to play, recreation, and leisure; learning and human development throughout the lifespan; gender and cultural differences; materials and environments; benefits and barriers; engineering and facilitating experiences; and activity adaptation. Classwork, 2 units; laboratory, 1 unit.
Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences

RPT 390 Leisure Travel and Tourism (Units: 3)
Prerequisites: Upper division standing; RPT 200 (may be taken concurrently).
Investigate scope and nature of the tourism industry including key system components; history; group travel planning, budgeting, and marketing techniques and processes used by tourism professionals; careers; current trends; and future challenges and opportunities.
Course Attributes:
• Global Perspectives

RPT 400 Programming in Recreation, Parks, and Tourism (Units: 3)
Prerequisites: Upper division standing; enrollment priority for Recreation, Parks, and Tourism majors.
Theory and process of program assessment, planning, implementation, and evaluation in public and private venues to enhance individual and community life quality. Needs and interests of people, settings, and leisure activities. Program marketing and community outreach.
RPT 410 Therapeutic and Inclusive Recreation (Units: 3)
Prerequisites: Upper division standing; RPT 200; or consent of instructor.
Universal access, design and inclusion in a diverse range of recreation, parks, and tourism settings. Disabling conditions and implications for leadership, activity adaptation, and programming. Enabling legislation, regulatory agents, and practices relevant to inclusivity and human rights. [CSL may be available]
Course Attributes:

- Social Justice

RPT 430 Ecology of Outdoor Recreation (Units: 3)
Prerequisite: Consent of instructor.
Parks and outdoor recreation. Conservation of resources, appreciation, use and misuse of the natural environment.

RPT 440 Urban Recreation and Parks (Units: 3)
Prerequisites: Upper division standing; RPT 200 (may be taken concurrently; or consent of instructor.
Urban recreation needs, issues, services; socio-political, ethnographic, and demographic influences on recreation, parks, and human service organizations for youth and other populations across the lifespan. Understanding philosophical, historical, and contemporary volunteerism, basic nonprofit governance, resource distribution, and managing municipal services.
Course Attributes:

- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

RPT 445 Recreation Therapy and the Expressive Arts (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Expressive arts and their use in a therapeutic recreation setting: art, music, movement and dance, poetry, and drama therapy.

RPT 460 Recreation Destination Resorts (Units: 3)
Prerequisite: RPT 390 or consent of instructor.
Leisure experiences provided by resorts, theme parks, campgrounds, hotels, and activity specific centers. Fundamentals of establishing, administrating, promoting, and working in recreation resorts.

RPT 470 Care Break: Alternative Spring Break Service (Units: 3)
Prerequisite: Upper division standing.
Introduction and application of concepts related to civic and community engagement, cultural competency, and sociocultural, environmental, and economic sustainability through a mandatory 40-hour spring break service learning experience. Travel outside California or the U.S. may be required. Extra fee required. [CSL may be available]

RPT 500 Organization and Administration of Recreation, Parks, and Tourism (Units: 3)
Prerequisites: Upper division standing; RPT 200, RPT 325 [formerly RPT 225]; concurrent enrollment in RPT 400; and RPT 600GW recommended.
Principles and practices in organizational structure, human resources administration, supervision, budgeting and financial management, and analysis of recreation, parks, and tourism organizations. Trends, technology applications, and case studies.

RPT 520 Parks and Outdoor Recreation Resources (Units: 3)
Prerequisites: Upper division standing; RPT 200 (maybe taken concurrently).
Park operations and regulatory compliance at municipal, county, state, and federal levels; resource acquisition and financing; facility planning, design, and maintenance; environmental issues; ethics; interrelationship between environment and visitor experience; and risk management.
Course Attributes:

- Environmental Sustainability

RPT 540 Start-Up and Sustainable Operations of Tourism, Event and Recreation Enterprises (Units: 3)
Prerequisite: RPT 390 or consent of instructor.
Start-up and administration of tourism, event, and commercial recreation enterprises; industry trends; consumer behavior with implications for entrepreneurs and managers; managing and marketing principles applied to industry; development of enterprise plan; assessment of financial feasibility.
(RPT 840/RPT 540 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RPT 560 Current Practices in Parks, Recreation, and Leisure Services (Units: 1-3)
Prerequisite: RPT 200 or consent of instructor.
Topic to be specified in Class Schedule. Focus on new or updated technology, procedures, or methods; e.g., systems analysis, leisure education, tourism, legal implications, specific professional practices in parks, recreation, and leisure services. May be repeated for a total of 9 units when topics vary.

RPT 570 Developing and Managing Resources in Nonprofit Agencies (Units: 3)
Prerequisite: RPT 370 or consent of instructor.
Framework for the administration of nonprofit agencies through volunteer recruitment, selection, and management. Principles of philanthropy and fundraising applied to management of nonprofit agencies. [CSL may be available]

RPT 600GW Professionalism in Recreation, Parks, and Tourism - GWAR (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent with a grade of C or better; concurrent enrollment in RPT 400, RPT 500; internship eligibility.
Seminar in professional/personal development; career planning; internship preparation; current issues, trends, policies, and professional practices. Demonstration of professional, nonverbal, and verbal communication competencies. (ABC/NC grading only) [Formerly RPT 660GW]
Course Attributes:

- Graduation Writing Assessment
RPT 605 Ecotourism Principles and Practices (Units: 3)
Prerequisite: Upper division standing.

Nature-based, low-impact tourism to preserve the environment and local communities. Assessment of adverse and beneficial tourism impacts on the global environment, indigenous cultures, and economy. Ecotourism market, providers, eco-resorts, community settings, and regulators. The balance between promoting versus limiting ecotourism.

Course Attributes:
• UD-D: Social Sciences
• Environmental Sustainability
• Global Perspectives
• Social Justice

RPT 640 Recreational Use of National Parks and Protected Areas (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Introduction to concepts of conservation and preservation of national parks and other ecosystem units, and managing visitor use. Emphasis on history, management principles, and current issues. National parks will be the primary focus, selected international protected areas will be included. [CSL may be available]
(This course is offered as RPT 640 and ENVS 640. Students may not repeat the course under an alternate prefix.)

RPT 670 Advanced Conference, Event Planning, and Management (Units: 3)
Prerequisite: RPT 340 or consent of instructor.

Application of advanced techniques for planning and managing conventions, trade shows, festivals, expositions, and other special events. Event strategic planning and marketing, ROI, and risk management.

RPT 680 Planning and Evaluating Recreation, Parks, and Tourism (Units: 3)
Prerequisites: Internship eligibility and consent of instructor.

Planning and evaluation concepts, principles, and applications to recreation, parks, and tourism; strategic planning models/processes; assessment of organization vision, mission, goals, programs, facilities, marketing, and financials; demographic, environment, and social analysis; needs-assessment techniques and data analysis. [CSL may be available]

RPT 690 Internship in Recreation, Parks, and Tourism (Units: 12)
Prerequisites: Restricted to upper division Recreation, Parks, and Tourism majors; concurrent enrollment in RPT 680; internship eligibility; and consent of instructor.

A 480-hour, full-time internship in a recreation, parks, or tourism agency supervised by qualified personnel. Application of concepts, principles, and best practices; directed field experience and training in organization and industry infrastructure including operations, facilities, marketing, finance, and programs/services; and demonstration of competencies needed in the profession. [CR/NC grading only]

RPT 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

In-depth, individual, or group study projects in areas of personal/professional recreation and leisure interest under the guidance of a faculty member. Enrollment by petition. May be repeated for a total of 6 units. [CSL may be available]

RPT 700 Orientation and Professional Development in Recreation and Leisure Service (Units: 3)
Prerequisites: Graduate standing and consent of instructor.

Orientation to the recreation, parks, and tourism discipline; literature in the field; research writing; current issues and trends; comprehensive self-assessment professional skills and competencies.

RPT 720 Developing Collaborative Leaders in Leisure Services (Units: 3)
Prerequisites: Graduate standing and consent of instructor.

Examination and development of leadership behaviors and principles associated with creating and/or guiding a leisure service organization’s efforts to develop collaborative leaders. Emphasis on creating an organizational environment with a diverse workforce where shared leadership is valued and practiced.

RPT 730 Foundations of Leisure (Units: 3)
Prerequisites: Graduate standing and consent of instructor.

Interrelated concepts of time, work, and leisure and their impact on the leisure services profession and selected contemporary and future issues. Selected readings in cultural, historical, philosophical, behavioral, and social scientific literature related to the above.

RPT 740 Leisure and Aging (Units: 3)
Prerequisite: Graduate status or consent of instructor.

Trends, concepts, challenges of aging related to leisure. Focuses on issues of lifespan, retirement, changing roles, and lifestyle adjustment. Applications and implications for leisure service delivery in a variety of clinical, custodial/long-term care, and community organizational settings.

RPT 810 Research Methods in Recreation and Leisure Studies (Units: 3)
Prerequisites: RPT 700, RPT 730, or consent of instructor.

Introduction to general research approaches, design, and methodology, with emphasis on research design and methods used in recreation and leisure studies. Review of pertinent literature. Gain practical experience with graduate level resources at SF State.

RPT 840 Start-Up and Sustainable Operations of Tourism, Event and Recreation Enterprises (Units: 3)
Prerequisite: RPT 390 or consent of instructor.

Start-up and administration of tourism, event, and commercial recreation enterprises; industry trends; consumer behavior with implications for entrepreneurs and managers; managing and marketing principles applied to industry; development of enterprise plan; assessment of financial feasibility. (RPT 840/RPT 540 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RPT 850 Human Resources Development in Leisure Studies (Units: 3)
Prerequisites: Classified graduate standing and consent of instructor.

Seminar in supervision including volunteer management, situational leadership: coaching and counseling personnel, performance appraisal, and personnel management systems.
RPT 862 Management of Leisure Services (Units: 3)
Prerequisites: Graduate standing; RPT 500 or equivalent; consent of instructor.

Organization and management of services in public and private leisure service agencies. Legal issues, fiscal resources, management trends, political issues, community involvement, organizational effectiveness, and current problems and issues affecting leisure service agencies. (Plus-minus letter grade only)

RPT 870 Evaluation of Professional Growth and Leadership in Recreation and Leisure Services (Unit: 1)
Prerequisites: Graduate standing and consent of instructor.

Refinement of professional development plan developed in RPT 700. Mentor new graduate student, assist with conduct of self-assessment, leadership and professional skills inventory, and development of career goals plan.

RPT 880 Trends and Issues in Leisure Services (Units: 3)
Prerequisites: RPT 700, RPT 720, RPT 730, or consent of instructor.

Intensive study of selected problems in recreation. (Plus-minus letter grade only)

RPT 890 Internship (Units: 3)
Prerequisite: Consent of instructor.

Field experience in recreation in a medical, paramedical, or institutional setting under the supervision of specialists in recreation.

RPT 895 Applied Research Project (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

An in-depth examination of an issue/problem within recreation, parks, and/or tourism. Supervised by committee chair and culminates in an applied research project and professional paper. (CR/NR grading; RP allowed)

RPT 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Research on a topic within recreation, parks, and/or tourism resulting in a significant literature review, methodology, and data analysis. Supervised by committee chair and culminates in a thesis. (CR/NC grading only)

RPT 899 Independent Study (Units: 3)
Prerequisite: Consent of graduate coordinator and supervising faculty member.

Study is planned, developed, and completed under the direction of a member of the college. Open only to graduate students of demonstrated ability to do independent work. Enrollment by petition. May be repeated for a total of 6 units.
Religious Studies (RELS)

RELS 300 The Nature of Religious Experience (Units: 3)
Prerequisite: ENG 114 or equivalent.

Nature of religious experience drawn from different religions and academic disciplines within the humanities and social sciences; investigation of the meaning of religious commitment in a secular world. (This course is offered as PHIL 525 and RELS 300. Students may not repeat the course under an alternate prefix.)

Course Attributes:

• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities
• Global Perspectives

RELS 696 Directed Reading in Religious Studies (Units: 3)
Prerequisite: RELS 300.

Project to synthesize varying perspectives on religion and religious experiences.
Russian (RUSS)

RUSS 101 First Semester Russian (Units: 5)
Instruction in understanding, speaking, reading, and writing Russian. (Page reference for Department of Foreign Language statement can be found in the Index.)

RUSS 102 Second Semester Russian (Units: 5)
Prerequisite: RUSS 101 or consent of instructor.
Continuation of RUSS 101.

RUSS 103 Third Semester Russian (Units: 5)
Prerequisite: RUSS 102 or consent of instructor.
Understanding, speaking, reading, and writing Russian at the intermediate level; Russian culture.

RUSS 260 Russian Culture and Civilization in English (Units: 3)
Prerequisite: ENG 214 or consent of instructor.
Major themes in the development of Russian culture and civilization from the 9th Century to the present; architecture, literature, folklore, customs, music, dance, theatre and cinema. Taught in English. [Formerly RUSS 401]

RUSS 301 Reading and Grammar (Units: 3)
Prerequisite: RUSS 103 or consent of instructor.
Reading modern Russian. Development of vocabulary, syntax, and acquisition of idiomatic expressions.

RUSS 305 Advanced Grammar and Composition (Units: 3)
Prerequisite: RUSS 301 or consent of instructor.
Analysis of grammatical constructions. Exercises in composition.

RUSS 306 Advanced Conversation and Composition (Units: 3)
Prerequisite: RUSS 305 or consent of instructor.
An intensive reading-conversation course.

RUSS 307 Advanced Reading and Composition (Units: 3)
Prerequisite: RUSS 305 or consent of instructor.
Reading and composition designed to develop writing for advanced work.

RUSS 325 Practical Linguistics of Russian (Units: 3)
Prerequisite: RUSS 301 or consent of instructor.
Application of linguistics to the study of Russian sound patterns and structures.

RUSS 511 Russian Literature II in English (Units: 3)
Prerequisite: ENG 214 or consent of instructor.
Representative works and movements of the Golden Age in Russian literature from the beginning of the 19th Century to the beginning of the 20th Century. [Taught in English]

RUSS 610 Dostoevsky in English Translation (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Dostoevsky's seven important works. [Taught in English]
(RUSS 810/RUSS 610 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RUSS 613 The Russian Novel: Pushkin, Lermontov, Gogol in English (Units: 3)
Prerequisite for RUSS 813: Graduate standing or consent of instructor.
Prerequisite for RUSS 613: ENG 214 or equivalent or consent of instructor.
Analysis of late 18th and early 19th century Russian novels assessed from perspective of genre theory and Bakhtin's theory of novel. [Taught in English]
(RUSS 813/RUSS 613 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RUSS 615 The Russian Avant-Garde (Units: 3)
Prerequisites for RUSS 815: Graduate standing; ENG 214 or equivalent; or consent of instructor.
Prerequisite for RUSS 615: ENG 214 or equivalent; or consent of instructor.
Creativity in Russian literature, arts, cinema, society between 1905:1930 in context of Russian traditions and Western European parallels. Taught in English.
(RUSS 815/RUSS 615 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RUSS 621 Tolstoy in English Translation (Units: 3)
Prerequisite: ENG 214 or consent of instructor.
Tolstoy-master of fiction and non-fiction, radical thinker who challenged the status quo. Major fiction works/correspondence with Gandhi. Taught in English.

RUSS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of department chair and instructor.
Special topics in Russian. Written projects requiring critical analysis and interpretation of linguistic or literary problems. Material adapted to individual needs and interests. May be repeated.

RUSS 810 Dostoevsky in English Translation (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Dostoevsky's seven important works. [Taught in English]
(RUSS 810/RUSS 610 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RUSS 813 The Russian Novel: Pushkin, Lermontov, Gogol in English (Units: 3)
Prerequisite for RUSS 813: Graduate standing or consent of instructor.
Prerequisite for RUSS 613: ENG 214 or equivalent or consent of instructor.
Analysis of late 18th and early 19th century Russian novels assessed from perspective of genre theory and Bakhtin's theory of novel. [Taught in English]
(RUSS 813/RUSS 613 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
RUSS 815 The Russian Avant-Garde (Units: 3)
Prerequisites for RUSS 815: Graduate standing; ENG 214 or equivalent; or consent of instructor.
Prerequisite for RUSS 615: ENG 214 or equivalent; or consent of instructor.

Creativity in Russian literature, arts, cinema, society between 1905-1930 in context of Russian traditions and Western European parallels. Taught in English.
(RUSS 815/RUSS 615 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

RUSS 899 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor.
Study is planned, developed, and completed under the direction of a member of the department faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition.
Sanskrit (SNSK)

SNSK 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Study available for previous Sanskrit students who wish to undertake additional work in the language and literature in some specialized area of interest not offered in regularly scheduled classes. Work is planned and completed under direction of a faculty member.
Science (SCI)

SCI 110 Science Concepts - Human Biology (Unit: 1)
Prerequisite: Concurrent enrollment in MATH 50.

Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in MATH 50. May be repeated for a total of 2 units. (Plus-minus ABC/NC, CR/NC grading only)

Course Attributes:
- Pre-Collegiate

SCI 101 First Year Experience in Science and Engineering (Units: 3)
Prerequisite: Freshmen.

Goals of higher education, emphasis on content in programs in the College of Science and Engineering; structure of university and college; skills development related to academic success. (ABC/NC grading, CR/NC allowed)
(Note: In order for this course to satisfy General Education, students must earn a C- or CR or higher grade if taken fall 2014 or later.)

Course Attributes:
- E1: Lifelong Learning Develop
- A3: Critical Thinking
- Environmental Sustainability

SCI 102 Science Concepts: Statics (Unit: 1)
Prerequisites: MATH 227, PHYS 220; concurrent enrollment in ENGR 102.

Student-centered discussion and problem solving designed to promote understanding of key concepts of statics and enhance student success in ENGR 102. Limit of 4 units of science concepts courses allowed toward baccalaureate degree.

SCI 103 Science Concepts - Survey of Chemistry (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 101.

Student-centered discussion and problem-solving designed to promote understanding of key concepts and enhance student success in the concurrent chemistry course. Limit of 4 units of any combination of SCI 235 and Science Concepts courses. (Plus-minus ABC/NC grading, CR/NC allowed)

SCI 110 Science Concepts - Human Biology (Unit: 1)
Prerequisite: Concurrent enrollment in BIOL 100.

Student-centered discussion and problem-solving designed to promote understanding of key concepts and enhance student success in the concurrent biology course. Limit of 4 units of any combination of SCI 235 and Science Concepts courses. (Plus-minus ABC/NC grading, CR/NC allowed)

SCI 111 Science Concepts: Physics I (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 111.

Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in PHYS 111. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 115 Science Concepts - Chemistry I (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 115.

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent chemistry course. Limit of 4 units of any combination of SCI 235 and Science Concepts courses. (ABC/NC grading; CR/NC allowed)

SCI 121 Science Concepts: Physics II (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 121.

Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in PHYS 121. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 124 Math Concepts - Elementary Statistics (Unit: 1)
Prerequisite: Concurrent enrollment in MATH 124.

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in MATH 124. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (Plus-minus ABC/NC, CR/NC grading option)

SCI 140 Essential Concepts of Physics and Chemistry (Units: 3)
Fundamental concepts of physics and chemistry, from motion, forces, and energy on to atomic structure, molecules, bonding, and chemical reactions. Basic organic and biochemistry. Classwork, 2 units; laboratory, 1 unit.

SCI 199 Mathematics Concepts: Pre-Calculus (Unit: 1)
Prerequisite: Concurrent enrollment in MATH 199.

Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in MATH 199. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 201 Science Concepts: Dynamics (Unit: 1)
Prerequisites: ENGR 102; concurrent enrollment in ENGR 201.

Student-centered discussion and problem solving designed to promote understanding of key concepts of dynamics and enhance student success in ENGR 102. Limit of 4 units of science concepts courses allowed toward baccalaureate degree.

SCI 205 Science Concepts: Electric Circuits (Unit: 1)
Prerequisites: PHYS 230; concurrent enrollment in ENGR 205.

Student-centered discussion and problem-solving section. Designed to promote understanding of key concepts of circuit analysis and enhance student success in ENGR 205. Limit of 4 units of any combination of science, math, and engineering concepts courses allowed toward the baccalaureate degree. (ABC/NC, CR/NC grading only)

SCI 210 Science Concepts - General Microbiology and Public Health (Unit: 1)
Prerequisite: Concurrent enrollment in BIOL 210.

Student-centered discussion and problem-solving designed to promote understanding of key concepts and enhance student success in the concurrent biology course. Limit of 4 units of any combination of SCI 235 and Science Concepts courses. (Plus-minus ABC/NC grading, CR/NC allowed)
SCI 211 Science Concepts: Computer Programming (Unit: 1)
Prerequisite: Concurrent enrollment in CSC 210.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in the concurrent computer science course. Limit of 4 units of any combination of SCI 235, Science, Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (Plus-minus ABC/NC, CR/NC allowed)

SCI 215 Science Concepts - Chemistry II (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 215.
Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent chemistry course. Limit of 4 units of any combination of SCI 235 and Science Concepts courses. (ABC/NC grading; CR/NC allowed)

SCI 220 Science Concepts: Physics with Calculus I (Unit: 1)
Prerequisite: Concurrent enrollment in PHYS 220.
Designed to promote understanding of key concepts and enhance student success in PHYS 220. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (Plus/Minus ABC/NC; CR/NC allowed)

SCI 226 Mathematics Concepts: Calculus I (Unit: 1)
Prerequisite: Concurrent enrollment in MATH 226.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in MATH 226. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 227 Math Concepts: Calculus II (Unit: 1)
Prerequisite: Concurrent enrollment in MATH 227.
Student centered discussion and problem solving section designed to promote understanding of key concepts and enhance student success in MATH 227. Limit of four units in any combination of SCI 235, Science Concepts, and SCI Math Concepts toward the baccalaureate degree. (Plus-minus ABC/NC; CR/NC allowed)

SCI 230 Science Concepts: Biology I (Unit: 1)
Prerequisite: Concurrent enrollment in BIOL 230.
Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent biology course. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses. (ABC/NC grading; CR/NC allowed)

SCI 231 Science Preparatory I - Foundations (Units: 2)
Enhance students’ knowledge in the foundational core of biology, chemistry, physics, and mathematics. Covers basic concepts, tools, and approaches.

SCI 232 Science Preparatory II - Study Skills (Units: 2)
Emphasis on increasing students’ study skills in the context of basic science coursework. Writing and communication skills addressed.

SCI 233 Science Preparatory III - Projects (Units: 2)
Builds upon the skills developed in SCI 231 and SCI 232. Develop and work on individual project with the instructors to put these skills in action. Explore a variety of careers in various science fields.

SCI 234 Science Concepts: Physics with Calculus II (Unit: 1)
Prerequisites: PHYS 220, MATH 227; concurrent enrollment in PHYS 230, PHYS 232.
Student-centered discussion and problem-solving. Designed to promote understanding of key concepts of electromagnetism and enhance student success in PHYS 230. Limit of 4 units of science concepts courses allowed toward baccalaureate degree. (ABC/NC, CR/NC grading only)

SCI 235 Science Concepts (Units: 2)
Prerequisite: Concurrent enrollment in BIOL 230 or BIOL 240, CHEM 115 or CHEM 215.
Preference given to students in Health Career Opportunity Program. Designed to enhance student success in introductory biology and chemistry courses by emphasizing problem solving and scientific writing skills. May be repeated once for a total of 4 units.

SCI 239 Introduction to Health Professions (Units: 2)
Introduction to the broad array of health professions, helping students make a more informed health career choice. Activities include talks from guest speakers representing various health professions, small group activities, and student projects. Intended for freshmen and sophomores.

SCI 240 Science Concepts: Biology II (Unit: 1)
Prerequisite: Concurrent enrollment in BIOL 240.
Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent biology course. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses. (ABC/NC grading; CR/NC allowed)

SCI 300 Science Concepts: Physical Chemistry I (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 300.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in CHEM 300 and CHEM 351. Limit of 4 units of any combination of SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 321 Science Concepts: Quantitative Analysis (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 321.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in CHEM 321. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 328 Science Concepts: Human Anatomy (Unit: 1)
Prerequisites: A college course in biology; concurrent enrollment in BIOL 328.
Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent biology course. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses. (ABC/NC grading only)
SCI 333 Science Concepts: Organic Chemistry I (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 233.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in CHEM 333. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 335 Science Concepts: Organic Chemistry II (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 335.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in CHEM 335. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 340 Science Concepts: Biochemistry I (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 340.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in CHEM 340. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 341 Science Concepts: Biochemistry II (Unit: 1)
Prerequisite: Concurrent enrollment in CHEM 341.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in CHEM 341. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 350 Science Concepts: Cell Biology (Unit: 1)
Prerequisite: Concurrent enrollment in BIOL 350.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in BIOL 350. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 355 Science Concepts: Genetics (Unit: 1)
Prerequisite: Concurrent enrollment in BIOL 355.
Student-centered discussion and problem solving section. Designed to promote understanding of key concepts and enhance student success in BIOL 355. Limit of 4 units of any combination of: SCI 235, Science Concepts, and Mathematics Concepts courses allowed toward the baccalaureate degree. (ABC/NC grading; CR/NC allowed)

SCI 499 Culminating Experience Continuous Enrollment (Unit: 0)

SCI 560GW Science Writing - GWAR (Units: 3)
Prerequisite: ENG 214 with a grade of C- or better.
Principles of research, writing, and editing of technical documents and articles for the public understanding of science. Students write publication-quality articles for possible inclusion in Interisci, the journal of the College of Science and Engineering. (Plus-minus ABC/NC grading only)
Course Attributes:

• Graduation Writing Assessment

SCI 610 Science Concepts - Principles of Human Physiology (Unit: 1)
Prerequisites: BIOL 328, CHEM 101; concurrent enrollment in BIOL 212; or consent of instructor.
Student-centered discussion and problem solving designed to promote understanding of key concepts and enhance student success in the concurrent biology course. Limit of 4 units of any combination of SCI 235 and Science Concepts courses. (Plus-minus ABC/NC grading; CR/NC allowed)

SCI 614 Graduate Writing Skills (Units: 3)
Prerequisite: Graduate standing. Enrollment priority given to College of Science and Engineering students.
Designed to increase the writing proficiency of graduate students. May not be used to meet MS ATC requirements. (CR/NC grading only)

SCI 652 SFU Science Partners K-12 Schools (Units: 4)
Prerequisites: One upper division course in your major field of study and instructor consent.
Introduction to science teaching and learning. Students engage in K-12 classroom teaching, examine their own understanding of science, discuss science education literature, and analyze science lessons and student learning. Classwork, 2 units; fieldwork, 2 units.

SCI 693 Cooperative Education Program (Units: 1-12)
Prerequisite: Consent of instructor.
Supervised employment in academically relevant fields of study. Objectives are career development, occupational experience, and educational subsidy. Contact the Cooperative Education Office for more information. May be repeated for a total of 24 units with consent of major adviser.

SCI 695 Health Professions Colloquium (Units: 2)
Prerequisites: BIOL 230/BIOL 240, CHEM 115/CHEM 215.
Preference given to students in Health Career Opportunity Program. Designed to prepare juniors and seniors for successful application to health professions schools. Application preparation, mock interviews, standard test preparation, oral presentations of journal articles. May be repeated for a total of 4 units.

SCI 750 Science Teaching for Scientists I (Units: 2)
Prerequisite: Graduate standing or consent of instructor.
Introduction to practical teaching strategies, science education theory and research, and scientific teaching to SF State graduate student scientists who are teaching science in a variety of contexts. May be repeated for a total of 4 units. (Plus-minus letter grade only)
(This course is offered as SCI 750 and BIOL 750). Students may not repeat the course under an alternate prefix.)

SCI 751 Fieldwork: Science Teaching for Scientists I (Units: 2)
Prerequisites: SCI 750 (may be taken concurrently); consent of instructor.
Fieldwork component that accompanies SCI 750 seminar. Fieldwork in a variety of settings from K-12 science classrooms, TA appointment in SFSU College of Science and Engineering course, or other science education setting. May be repeated for a total of 4 units for degree credit. (CR/NC grading only)
SCI 793 Cooperative Education Program (Units: 1-3)
Prerequisites: Graduate standing and consent of instructor.
Supervised employment in academically relevant fields of study.
Objectives are career development, occupational experience, and
educational subsidy. Contact the Cooperative Education Office for more
information. May be repeated for a total of 3 units.

SCI 850 Science Teaching for Scientists II (Units: 2)
Prerequisites: SCI 750; may be taken concurrently with SCI 851 (fieldwork
component); consent of instructor.
Explores issues in science and learning and the larger context of K-12
science education. May be repeated for a total of 4 units. (AB/NC grading
only)

SCI 851 Fieldwork: Science Teaching for Scientists II (Units: 2)
Prerequisites: SCI 750; concurrent enrollment in SCI 850; consent of
instructor.
Fieldwork component that accompanies SCI 850 seminar. Fieldwork can
be in a variety of settings from K-12 science classrooms, TA appointment
in course in SFSU College of Science and Engineering, or other science
education settings. May be repeated for a total of 4 units. (CR/NC grading
only)
Secondary Education (S ED)

S ED 200 Introduction to Teaching and Education (Units: 3)
Introduction to the field of education and to the profession of teaching. (This course is offered as S ED 200 and EDUC 200. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• D1: Social Sciences

S ED 300 Education and Society (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to education and the role that education and schools play in society. (This course is offered as S ED 300 and EDUC 300. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Social Justice

S ED 615 Constitutional Concepts for Future Teachers (Units: 2)
Prerequisite: Admission to Credential Program or consent of instructor.
Major concepts include separation/sharing of powers; popular sovereignty; limits on government. Meets U.S. constitutional requirement for basic teaching credential.

S ED 640 Supervised Observation/Participation in Public Schools (Units: 3)
Prerequisite: Concurrent enrollment in S ED 751.
A program of observation and participation in public schools under the guidance of a university supervisor, including regular meetings for the analysis of field experiences. (CR/NC grading only) [CSL may be available]
Course Attributes:
• Teacher Credential Program Crs

S ED 660 Student Teaching in Single Subject (Units: 9)
Prerequisite: Admission to Credential Program or consent of instructor.
Teaching experience in the public school under the guidance of a university supervisor with the cooperation of a supervising teacher. Open only to candidates formally approved by the Secondary Education Department. Requires a total of 18 units.
Course Attributes:
• Teacher Credential Program Crs

S ED 699 Independent Study (Units: 1-3)
Prerequisite: Admission to Credential Program or consent of instructor.
An intensive study of a particular problem in education under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only.

S ED 701 Teaching for Equity in Secondary Schools (Units: 3)
Prerequisite: Admission to Credential Program or consent of instructor.
Examination of historical purposes of education, the influences of identity on schooling experience, school-based factors that contribute to inequitable outcomes, and our agency as teachers to make changes for equity. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

S ED 710 Seminar in Secondary Education (Units: 2)
Prerequisite: Admission to Credential Program or consent of instructor.
Focus on skills and knowledge for successful secondary level substitute teacher such as classroom management skills, lesson-plan understanding, and knowledge of early adolescents. May be repeated for a total of 4 units. (Plus-minus letter grade only)

S ED 720 Literacy Across Content Areas (Units: 3)
Prerequisite: Admission to Credential program or consent of instructor.
Instructional strategies, grounded in theory and research, which help secondary school students use reading and writing to learn in all subject matter areas. Emphasis on supporting literacy development of culturally and linguistically diverse learners. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

S ED 751 Classroom Environment and Management (Units: 3)
Prerequisites: Admission to Credential program; concurrent enrollment in S ED 460.
Creating and maintaining positive and productive learning environments. Emphases on preparation for supporting student teaching and performance assessment. (Plus-minus letter grade only) [CSL may be available]
Course Attributes:
• Teacher Credential Program Crs

S ED 752 Professional Perspectives and Practices (Units: 3)
Prerequisites: Admission to Credential program; S ED 751; concurrent enrollment in S ED 660.
Integrating, reflecting, and building knowledge and skills for teaching all students are the major thrusts. Professional obligations and growth are also addressed. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

S ED 759 Curriculum and Instruction I (Units: 3)
Prerequisite: Admission to Credential program or consent of instructor.
Content area to be specified in Class Schedule. Principles and practices for teaching secondary subjects, including planning of content and instruction with consideration of student learning and state standards. May repeat when topics vary. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs
S ED 761 School Mathematics: Problem Solving (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Curriculum development in mathematics. Problem solving strategies as a unifying theme for content selection. (This course is offered as E ED 761 and S ED 761. Students may not repeat the course under an alternate prefix.)

S ED 769 Curriculum and Instruction II (Units: 3)
Prerequisites: S ED 759; concurrent enrollment in S ED 660.
Subject area to be specified in Class Schedule. Principles and practices for teaching secondary subjects to all learners, with additional emphases on assessment, reflective practice, and technology. May repeat when topics vary. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

S ED 770 Current Issues in Secondary Education (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Examination of a variety of current issues important to secondary education professionals. (Plus-minus AB/NC)

S ED 780 Advanced Curriculum Development (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Builds on curriculum development skills from credential program to next steps in creating innovative curriculum for secondary education programs.

S ED 790 Second Language Development (Units: 3)
Prerequisites: Admission to Credential Program; S ED 751; or consent of instructor.
Issues related to language, culture, and literacy development for second language learners. The role of first language competencies in the development of second language. Treatment of second language acquisition theories, instructional strategies, and pedagogical techniques. (Plus-minus letter grade only) [CSL may be available]

Course Attributes:
- Teacher Credential Program Crs

S ED 796 Analyzing Cases of Mathematical Teaching (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Cases of mathematics teaching practice are a catalyst for analytic discussion of assessment, mathematical representation, and student misconceptions. Teaching decisions are evaluated in the context of real classroom situations with regard to their impact on student learning, motivation, and beliefs. (Plus-minus letter grade only)
(This course is offered as E ED 796 and S ED 796. Students may not repeat the course under an alternate prefix.)

S ED 800 Adolescent Development (Units: 3)
Prerequisite: Admission to Credential Program or consent of instructor.
Covers learning theories, current social issues, and adolescent behaviors. Five areas of adolescent development (emotional, physical, moral, social, and cognitive) are examined as each pertains to middle and high school teaching and student learning. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

S ED 807 Leadership Development in Mathematics Education (Units: 3)
Prerequisite: Consent of instructor.
Enhancement and development of mathematical ideas and instructional methodologies from a classroom perspective to a theoretical framework. Knowledge of curriculum development and leadership skills; dissemination to other teachers. (This course is offered as E ED 807 and S ED 807. Students may not repeat the course under an alternate prefix.)

S ED 850 Culminating Experience Project Design (Units: 3)
Prerequisites: Graduate standing in secondary education and approval of first reader.
Prepare student to apply lessons learned to their culminating experience project: thesis, field study or curriculum innovation project (CIP). (Plus-minus letter grade only)

S ED 856 Assessing Mathematical Thinking (Units: 3)
Prerequisite: Consent of instructor.
Assessment strategies for classroom use; dimensions of students’ mathematical thinking and learning. Development of performance assessments includes open-ended tasks and portfolios. (This course is offered as E ED 856 and S ED 856. Students may not repeat the course under an alternate prefix.)

S ED 895 Field Study (Units: 3)
Prerequisites: Consent of graduate major advisor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC; RP grading only)

S ED 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of graduate major advisor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. Graduate Approved Program and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

S ED 899 Independent Study (Units: 1-3)
Prerequisite: Admission to Credential Program or consent of instructor.
An intensive study of a particular problem in education under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open only to regularly enrolled graduate students.
Sexuality Studies (SXS)

SXS 110 Sexuality in Society (Units: 3)
Introductory exploration of sexuality in its social context. Critical reflection on conventional and individualizing understandings of sexuality. Includes research articles, documentary films, and mainstream television and magazines. (This course is offered as SXS 110 and SOC 110. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• D1: Social Sciences
• Social Justice

SXS 300 Introduction to Human Sexuality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

The field of human sexuality studies.

SXS 301 Perspectives in Gay, Lesbian, Bisexual, and Transgender Studies (Units: 3)
Prerequisite: ENG 214.

Lesbian, gay, bisexual, and transgender studies as a field of knowledge. Cultural, social, political, and personal aspects of gay, lesbian, bisexual, and transsexual issues.

SXS 314 Gay, Lesbian, and Bisexual History (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

History of gays, lesbians, and bisexuals

SXS 320 Sex and Relationships (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Explores the role of sexuality in traditional and emerging forms of intimate relationships. (This course is offered as PSY 320 and SXS 320. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• E1: Lifelong Learning Develop
• UD-D: Social Sciences
• Global Perspectives

SXS 332 Understanding the Representation and Narration of Sexuality in Cinema (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.

Examination of the representation and narration of sexuality in cinema with an emphasis on Hollywood. Employs critical and cultural theory, including critical race, queer, and feminist theory, as means to uncover the social and political significance of sexuality in cinema. Explores ways in which cinema reflects and refracts ideologies associated with sexual identity and expression. (This course is offered as CINE 332 and SXS 332. Students may not repeat the course under an alternate prefix.)

SXS 350 Selected Issues in Human Sexuality (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.

Topic to be specified in Class Schedule. Examination and analysis of selected topics in human sexuality. May be repeated when topics vary.

SXS 369 Philosophical Issues in Sexuality (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division composition course; or consent of instructor.

Legal, moral, and conceptual issues concerning human sexuality. Rape, pornography, abortion, prostitution, homosexuality, marriage, promiscuity, perversion, sexual politics, sex and religion, and the language of sex. (This course is offered as PHIL 369 and SXS 369. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Social Justice

SXS 380 Coloring Queer: Imagining Communities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Interdisciplinary examination of the experience of queers of color in the U.S. through anthropology, sociology, history, literature, and cultural studies. Specific focus on racism, homophobia, transphobia, and intersectionality. [Formerly ETHS 380]

This course is offered as RRS 380 and SXS 380. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Social Justice

SXS 400 Variations in Human Sexuality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Variations in sexuality: sexual identity, relationships, behavior, and fantasy; identification of personal and social problems associated with varied sexual lifestyles. (This course is offered as SXS 400, PSY 450, and SOC 400. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Social Justice

SXS 402 Advanced Topics in Bisexual, Gay and Lesbian Studies (Units: 3)
Prerequisites: Upper division standing, SXS 301, or consent of instructor.

Social, cultural, economic, historical, and political patterns concerning the contemporary social lives and intimate relationships of bisexual, gay and lesbian people.

SXS 405 Queer Art History (Units: 3)
Prerequisites: ART 201 or ART 202 or equivalent, consent of instructor.

Case studies, primarily of Western art. Homophobia, censorship, reconstructing gay and lesbian history; major artists, visual codes, eroticism, lesbian feminism, families and communities, racial diversity, AIDS, other issues. (This course is offered as ART 403 and SXS 405. Students may not repeat the course under an alternate prefix.)

SXS 421 Homophobia and Coming Out (Units: 3)
Prerequisite: ENG 214 or equivalent.

Sources, forms, and history of homophobia; processes and consequences of coming out as related to gender, ethnicity, religion, age, socio-economic background, and physical ability.
SXS 436 The Development of Femaleness and Maleness (Units: 4)
Prerequisites: Upper division standing; PSY 371; or consent of instructor.
Integration of biological, psychological, social, and cultural knowledge
toward an understanding of the development of maleness and
femaleness. A critical look at theories of sex-typing and sex differences in
behavior, with attention to sex-role stereotypes and social issues.
(This course is offered as PSY 436 and SXS 436. Students may not repeat
the course under an alternate prefix.)

SXS 438 Culture and Sex in East Asia (Units: 3)
Prerequisites: Upper division standing, ANTH 120, or consent of
instructor.
Examines from the perspective of critical anthropology on the role of
culture in sex/gender power relations in East Asian societies.
(This course is offered as ANTH 415 and SXS 438. Students may not
repeat the course under an alternate prefix.)

SXS 440 Native Sexualities and Queer Discourse (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
A comparative, interdisciplinary, socio-historical analysis of Native
sexualities and gender constructions from indigenous centered
perspectives; examination of the complexity of Native sexualities, gender
formations, and queer indigenous identity movements.
(This course is offered as AIS 440, SXS 440, and WGS 440. Students may
not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

SXS 455 Sex, Power and Politics (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examines how the state and social institutions define gender roles,
regulate sexual practices, and police sex as a means of social control.
Issues include morality campaigns, AIDS/STD’s, pedophilia, pornography,
sodomy, abortion, etc.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

SXS 456 Psychology of Human Sexual Behavior (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Psychological aspects of human sexual functioning particularly
pertaining to gender identity, pairing, sexual orientation, sexual
intercourse, self-stimulation, reproduction, contraception, and abortion.
Related social issues such as alternative lifestyles, changing sex roles,
and recreational sex.
(This course is offered as PSY 456 and SXS 456. Students may not repeat
the course under an alternate prefix.)

SXS 460 AIDS and People of Color in the U.S. (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
The political, psychological, social, and economic impact of AIDS/HIV
infection on diverse cultural backgrounds. Prevention and educational
strategies.
(This course is offered as COUN 450, RRS 460, and SXS 460. Students
may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

SXS 469 Sex and Morality (Units: 3)
Prerequisites: Sophomore or higher standing; one lower-division
composition course; or consent of instructor.
Ethical theory and its applications to sexual conduct, therapy, and
research. Fundamentals of moral augmentation; complicated, morality-
laden issues associated with sexuality.
(This course is offered as PHIL 445 and SXS 469. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• E1: Lifelong Learning Develop
• UD-C: Arts and/or Humanities

SXS 470 Sex and the Net (Units: 3)
Prerequisite: SXS 300 or consent of instructor.
Social, psychological, and educational aspects of sexuality and the
Internet.

SXS 530 Gender and Sexuality in Ancient Greece and Rome (Units: 3)
Prerequisite: ENG 214 or equivalent.
Role of gender and sexuality in the ancient world. Areas of inquiry:
women’s bodies and social roles; homosexuality; and the socialization of
adolescents into adult gender/sex roles.
(This course is offered as CLAS 530 and SXS 530. Students may not
repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities

SXS 550 Field Service in Human Sexuality Studies (Units: 1-3)
Prerequisites: Nine units of SXS courses or consent of instructor.
Supervised field service performed in on-campus research, instructional,
or service units or off-campus agencies involved in human sexuality
medical, social, and psychological services. May be repeated.
SXS 551 Queer Literatures and Media (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Queer literature and media productions from a feminist and transnational perspective; intersectional analysis of gender, race, class, sexuality, and citizenship to examine fiction, film, cultural, and historical texts. (This course is offered as WGS 551 and SXS 551. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

SXS 567 Cross-Cultural Aspects of Sex and Gender (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Sex, sexuality, and gender; the control of sexuality, cultural components of gender role and gender identity, and symbolic aspects of sex and gender. (This course is offered as ANTH 569 and SXS 567. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice

SXS 569 Sex and the Law (Units: 3)
Prerequisite: ENG 114 or equivalent.

Philosophical investigation of legal issues pertaining to sexuality. Legal enforcement of morals and of specific cases and statutes regarding marriage, sex discrimination, abortion, rape, homosexuality, pornography, pedophilia, and other sex related activities. (This course is offered as PHIL 455 and SXS 569. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-C: Arts and/or Humanities
- Social Justice

SXS 601 Sexuality, Ethnicity, and Health (Units: 2-3)
Prerequisite: SXS 300 or consent of instructor.

Overview of the relationships between sexuality, ethnicity, and health. Ethnic and cultural differences that affect sexuality, behavior, risk and resiliency, and result in health disparities.

SXS 605 Sexual Violence (Units: 3)
Prerequisite for 705: Graduate standing or consent of instructor.
Prerequisite for 605: Upper division standing.

Covers a breadth of topics relating to sexual violence, concentrating on understanding the origins and consequences of various forms of sexual violence through the life course, and exploring how sex and sexuality can be used as tools to control individuals, groups of people, communities and states. (SXS 705/SXS 605 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

SXS 620 Sex, Inequality and Health (Units: 3)
Prerequisite for SXS 820: Graduate standing or consent of instructor.
Prerequisites for SXS 620: Consent of instructor and enrollment in summer institute.

Overview of major theories and findings in sexuality studies to help advanced undergraduate and graduate students integrate various disciplinary approaches to sexuality in one theoretical framework. (SXS 820/SXS 620 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

SXS 633 Gay Love in Literature (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.

Themes of gay love in fiction, poetry, and biography, beginning with Ancient Greece and extending to the present. (This course is offered as ENG 633 and SXS 633. Students may not repeat the course under an alternate prefix.)

SXS 635 Queer Masterpieces (Units: 3)
Prerequisite: ENG 214 or equivalent.

Gay, lesbian, bisexual, and transgender issues in the context of the Western tradition. Examination of how these issues shape and are in turn shaped by poets, novelists, and visual/performing artists.

SXS 651 Fieldwork in Gay/Lesbian/Bisexual Community Service (Units: 3)
Prerequisite: ENG 214.

Intern or supervised volunteer in religious, health, communications, political, recreation agencies in gay/lesbian/bisexual communities. May be repeated for a total of 6 units. (CR/NC grading only)

SXS 667 Lesbian, Gay, Bisexual, Transgender, and Queer Cultures and Society (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Sociological analysis of the character and development of lesbian, gay, bisexual, transgender, and queer communities and cultures in the context of broader social inequalities and social transformations. Special attention to the historical and social antecedents of the contemporary U.S. Focus on empirical and theoretical work within sociology. (This course is offered as SOC 467 and SXS 667. Students may not repeat the course under an alternate prefix.)

SXS 678 Disability and Sexuality (Units: 3)
Prerequisite: SXS 300 or consent of instructor.

Disability and sexuality through individual, societal, cultural, and political lenses.

SXS 680 Colloquium in Human Sexuality (Units: 3)
Prerequisite: Completion of the human sexuality minor core or consent of instructor.

Human sexuality from an interdisciplinary perspective presented by faculty, advanced students, and scholars outside the program. Forum for sharing ideas, exploring original concepts, and debating issues.
SXS 685 Projects in the Teaching of Human Sexuality Studies (Units: 1-4)
Prerequisites: Completion of relevant course or equivalent with a grade of B or better; consent of instructor.

Students serve as instructional aids in order to enrich their knowledge of the subject and the general processes of learning and teaching. Will help develop course materials, plan and review course structure and activities, and provide assistance to students in class projects and fieldwork. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

SXS 699 Independent Study (Units: 1-3)
Prerequisite: Consent of instructor and program director.

Supervised study of a particular issue selected by the student.

SXS 701 Sexual Cultures, Sexual Identities (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.

Concepts of "sexual culture" and "sexual identity" in history and across cultures. (This course is offered as SXS 701 and ANTH 701. Students may not repeat the course under an alternate prefix.)

SXS 702 Sexuality in Historical Perspective (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexuality Studies or History; or consent of instructor.

Traces the growing scholarship on the historical study of sexuality primarily in the U.S. Introduces students to a variety of historical studies on sexuality and assesses the validity and value of the work. (This course is offered as SXS 702 and HIST 702. Students may not repeat the course under an alternate prefix.)

SXS 703 Lesbian, Gay, Bisexual, Transgender Sexuality and Health (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Relationships between lesbian, gay, bisexual, and transgender (LGBT) sexuality and health: cultural differences that affect sexuality, behavior, risk, and resiliency, and contribute to health disparities.

SXS 704 Human Sexuality and Language (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Research on sexuality and language with emphasis on the role of language in the social construction of sexual meanings, sexual identities and sexual relationships in diverse cultures and linguistic communities. (Plus-minus letter grade only)

SXS 705 Sexual Violence (Units: 3)
Prerequisite for 705: Graduate standing or consent of instructor.
Prerequisite for 605: Upper division standing.

Covers a breadth of topics relating to sexual violence, concentrating on understanding the origins and consequences of various forms of sexual violence through the life course, and exploring how sex and sexuality can be used as tools to control individuals, groups of people, communities and states.

(SXS 705/SXS 605 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

SXS 723 Teaching Internship in Human Sexuality Studies (Units: 3)
Prerequisites: Graduate standing; completion of 15 units minimum; consent of instructor.

Individual projects under faculty supervision undertaken in conjunction with teaching assignments in undergraduate courses. Research and reports on the aims and methods of teaching human sexuality studies to undergraduates. May be repeated for a total of 6 units.

SXS 724 Research Internship in Human Sexuality Studies (Units: 3)
Prerequisites: Graduate standing and consent of instructor.

Study, discussion, and evaluation of principles of human sexuality research, theory, and method. May be repeated for a total of 6 units.

SXS 750 Seminar in Graduate Human Sexuality Studies (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Topic to be specified in Class Schedule. Examines trends, data, methodology, and current research in human sexuality studies. May be repeated when topics vary.

SXS 770 Sexuality and Public Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of the development of sexuality-related policy in the United States. The framework of historical debates and their impact on current policy will be discussed. Legal, ethical, political, fiscal, and other structural considerations will be addressed. The role of academic theory and research in the creation of public policy will be considered.

SXS 771 Research Seminar in Sexuality and Public Policy (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Focus on the historical, theoretical and institutional frameworks of sexuality policy in the United States. The concept of "sexual citizenship" will be examined; who possesses it, who does not, and who defines it, as well as examining the processes by which that definition is challenged and changed. Issues of scale (local, regional, national), ethics and strategies in policy-making will be discussed.

SXS 772 Sexuality, Visual Culture, and the Arts (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Examination of the cultural politics of representations of sexuality in visual culture and the arts, with emphasis on how such representations are produced in relationship to race, class, gender, and nation. (Plus-minus letter grade only)

(This course is offered as SXS 772 and WGS 772, and may not be repeated under the alternate prefix.)

SXS 794 Community Service Learning in Sexuality Studies (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Field experience in community-based organizations working with issues relating to sexuality. [CSL may be available]

SXS 799 Issues in Sexuality Studies (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Exploration of research topics for thesis projects; theoretical issues relating to research topics and empirical research. Provides a practical forum to discuss all research issues.
SXS 800 Sociocultural Foundations in Human Sexuality (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.
Current sociocultural knowledge concerning sexual cultures and sexual behavior. Theories of individual and cultural difference in sexuality. (AB/NC grading only)

SXS 801 Biological and Psychological Foundations of Human Sexuality (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies.
Current biological knowledge concerning sexual differentiation from conception through puberty, including sexual response and sexual identity. Psychological theories of sexual behavior and its development, courtship, sexual coercion, and variations in sexual behavior.

SXS 805 Sexuality Education and Policy (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.
Historical and philosophical underpinnings of sexuality education in the U.S.; major pedagogical theories and practices at elementary, secondary, and post-secondary levels. Education and social policy considerations. (This course is offered as SXS 805 and EDUC 805. Students may not repeat the course under an alternate prefix.)

SXS 806 Science, Technology, and Sexuality (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Overview of queer and feminist approaches to science, technology, and sexuality; development of critical scientific literacy; examination of how dominant representations of sex, gender, and sexuality shape scientific research; and approaches from feminist STS, medical sociology, and queer/trans theory.

SXS 810 Seminar in Sexual Identity and Communication (Units: 4)
Prerequisite: Graduate student in Communication Studies or Sexuality Studies or consent of instructor.
How sexual identities are created, shaped, produced, reproduced, maintained, changed, contested, and challenged through communication practices. Social, cultural, and historical contexts. Interpersonal and mass media contexts. (This course is offered as COMM 725 and SXS 810. Students may not repeat the course under an alternate prefix.)

SXS 820 Sex, Inequality and Health (Units: 3)
Prerequisite for SXS 820: Graduate standing or consent of instructor. Prerequisites for SXS 620: Consent of instructor and enrollment in summer institute.
Overview of major theories and findings in sexuality studies to help advanced undergraduate and graduate students integrate various disciplinary approaches to sexuality in one theoretical framework. (SXS 820/SXS 620 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

SXS 881 Research Methods in Human Sexuality Studies (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.
Interdisciplinary examination of multiple approaches to human sexuality research and social ethics.

SXS 882 Research Design in Human Sexuality Studies (Units: 3)
Prerequisites: Restricted to graduate students in Human Sexualities Studies; SXS 881; or consent of instructor.
Development, design, and implementation of the research project for completion of the master's thesis. (ABC/NC grading; RP allowed)

SXS 883 Applied Quantitative Methods in Sexuality Studies (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies.
Introduction to quantitative methods as they are applied to the social scientific study of sexuality.

SXS 884 Advanced Methods in Sexuality Studies (Units: 1-3)
Prerequisite: Graduate standing.
Practical and critical consideration of research methods and methodology in sexuality studies with a focus on specific strategies of data collection, interpretation, and analysis across disciplines and paradigms. May be repeated for a total of 3 units. (Plus/Minus Letter grade only)

SXS 890 Professional Development (Units: 3)
Prerequisite: Restricted to graduate students in Human Sexualities Studies or consent of instructor.
Apply the multidisciplinary perspective of human sexuality studies to ongoing projects, and discuss ethical concerns with regard to research in human sexuality and how current work can further professional careers. (AB/NC grading only)

SXS 894 Creative Work Project (Units: 3)
Prerequisites: Advancement to candidacy, approval of graduate advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
An original creative work project. Projects must be described in a written document that summarizes the project's relation to other work in the area, its rationale, its significance, and its creative methodologies. Advancement to Candidacy (ATC) and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

SXS 895 Research Project in Human Sexuality Studies (Units: 3)
Prerequisites: SXS 800, SXS 801, SXS 881, consent of graduate advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Research methodology and supervised research into topics and problems in human sexuality studies culminating in oral and written presentations. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (ABC/NC grading; RP allowed)

SXS 896 Directed Reading (Units: 3)
Prerequisite: Consent of graduate adviser.
Intensive directed reading in human sexuality studies under the supervision of a faculty member. (Plus-minus letter grade, CR/NC, RP)

SXS 898 Master's Thesis (Units: 3)
Prerequisites: Consent of graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)
SXS 899 Independent Study (Units: 1-4)
Prerequisite: Graduate standing or consent of instructor.

Study is planned, developed, and completed under the direction of a member of the program faculty. Open only to graduate students who have demonstrated the ability to do independent work. Enrollment by petition. May be repeated for a total of 12 units.
Social Work (S W)

S W 300 U.S. Social Welfare: Past, Present, and Future (Units: 3)
Prerequisites: Restricted to upper division Social Work majors; successful completion of introductory courses in human biology, economics, psychology, sociology; or consent of instructor.

Welfare institution viewed as societal responses to certain social needs. Social work profession and its involvement in the delivery of welfare services.

S W 301GW U.S. Social Welfare II: Problems, Policies, and Programs - GWAR (Units: 3)
Prerequisites: Restricted to upper division Social Work majors; ENG 214 with a grade of C- or better, S W 300; or consent of instructor.

Social problems in relation to policies and programs that determine available services. Input of government, voluntary associations, and consumer groups. (ABC/NC only)

Course Attributes:
- Graduation Writing Assessment

S W 302 Introduction to Social Service Organizations (Units: 3)
Prerequisites: Restricted to upper division Social Work majors; successful completion of introductory courses in human biology and economics.

Function, structure, and activities of social service organizations in a multi-racial, multi-ethnic urban environment. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

S W 350 Services to Children, Youth, and Their Families (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Policies, programs, and practices impacting services to children, youth, and their families. Public child welfare at state, national, and international levels.

S W 352 Gender, Sexism, and Social Welfare (Units: 3)
Prerequisite: Restricted to upper division social work majors.

Sex role stereotyping in the policies, practices, and organization of social welfare institutions; practice of social workers.

S W 400 Social Work Practice I (Units: 3)
Prerequisites: Restricted to upper division Social Work majors; concurrent enrollment in S W 300.

Seminar in the systems with which the practitioner must deal and the changing nature of the practitioner’s relationships with each of these systems.

S W 401 Social Work Practice II (Units: 3)
Prerequisites: Restricted to upper division Social Work majors; S W 400.

Forming, maintaining, and coordinating action systems; differential ways of influencing systems in various phases of the change process; terminating change efforts.

S W 402 Interviewing Skills in Social Work (Units: 3)
Prerequisites: S W 400; restricted to upper division social work majors.

Interviewing skills required of a social worker. Intake, informational, assessment, and interviews with families or groups.

S W 410 Human Development and the Social Services (Units: 3)
Prerequisite: Restricted to upper division social work majors.

Relation of human development and behavior from conception through old age to the functions of social service agencies in dealing with life crises.

S W 450 Introduction to Research in Social Work (Units: 3)
Prerequisites: Restricted to upper division Social Work majors; S W 301GW or S W 401; or consent of instructor.

The scientific method and its application to social work, the practitioner as consumer and contributor to social research. (CSL may be available)

S W 456 Urban Community Organizing and Citizen Action (Units: 3)
Prerequisites: Restricted to upper division Social Work and Urban Studies and Planning majors; S W 400, S W 401, S W 402; or consent of instructor.

History and current developments in community organization in the city. Principles and strategies of developing citizen action organizations. Role of community organizing and citizen participation in urban social programs.

(This course is offered as S W 456 and USP 456. Students may not repeat the course under an alternate prefix.)

S W 470 Social Differences and Social Work Practice (Units: 3)
Prerequisites: S W 300, S W 400.

Class, ethnicity, age, culture, religion, and disability, and their relationship to social work. Development of skills to work with populations different from oneself.

S W 502 Seminar on Field Experience I (Units: 2)
Prerequisites: Restricted to upper division Social Work majors; all junior year Social Work courses; concurrent enrollment in S W 503.

Analysis of field experiences utilizing social work theory and behavioral science concepts. (Plus-minus letter grade only)

S W 503 Field Experience in the Social Services I (Units: 2)
Prerequisites: Restricted to upper division Social Work majors; all junior year Social Work courses; concurrent enrollment in S W 502; consent of field director.

Field experience in a community social agency. May be repeated for a total of 6 units. (CR/NC only)

S W 504 Seminar on Field Experience II (Units: 2)
Prerequisites: Restricted to upper division Social Work majors; all junior year Social Work courses; S W 502, S W 503; concurrent enrollment in S W 505.

Analysis of field experiences utilizing behavioral concepts. (Plus-minus letter grade only)

S W 505 Field Experience in the Social Services II (Units: 2)
Prerequisites: Restricted to upper division Social Work majors; all junior year Social Work courses; S W 502, S W 503; concurrent enrollment in S W 504; and consent of field director.

Field experience in a community social agency. (CR/NC only)
S W 660 The Roles of Nonprofit Organizations in Urban Life (Units: 3)
Prerequisite: Restricted to senior Social Work majors.
Analysis of non-profit organizations in social services: the arts, housing, environmental and community advocacy. The role of the board, laws, consumers and donors, income, volunteers, and decision-making. (Plus-minus letter grade only)
(This course is offered as S W 660, PLSI 660, and USP 660. Students may not repeat the course under an alternate prefix.)

S W 699 Independent Study (Units: 1-3)
Prerequisite: Social Work major or consent of instructor.
Supervised study of a particular problem selected by the student in consultation with the advisor.

S W 700 History and Philosophy of Social Welfare (Units: 3)
Prerequisite: Restricted to graduate students in social work program.
History of social welfare policies and services in the U.S. Political, economic, social, legal, and cultural contexts of social policy analyzed in terms of future implications. Applications to and implications for diversity.

S W 701 Social Policy Analysis (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 700.
Models and frameworks to analyze social policy. New policy/program directions and action plans.

S W 710 Human Behavior and the Social Environment (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program.
Human development and social services through the life cycle. Current social services and unserved needs identified at each stage of life with emphasis on oppressed groups.

S W 720 Research Methods in Social Work (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 450 or equivalent; completion of first semester of graduate Social Work program.
Role of research in the development of social work theory and practice. Methods of data collection, processing, and analysis.

S W 721 Seminar: Evaluative Research in Social Work (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 720.
Design, execution, and analysis of evaluative research designs, methods, and strategies in social welfare.

S W 730 Social Work Practice Methods (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program.
Concepts and processes of urban generalist practice. Development of skills relevant to the needs and aspirations of oppressed individuals, groups, and communities.

S W 740 Fieldwork Instruction (Units: 2-3)
Prerequisites: Restricted to graduate students in social work program; concurrent enrollment in S W 741; consent of field director.
Introduction to fieldwork and the professional nature of social work practice. Orientation, referral, and placement of students into social service agencies. May be repeated for a total of 10 units. (CR/NC grading only)

S W 741 Graduate Fieldwork Seminar (Unit: 1)
Prerequisites: Restricted to graduate students in Social Work program; concurrent enrollment in S W 740.
Evaluative seminar to analyze field experiences. Conducted by faculty field liaison and with agency field supervisor input. May be repeated for a total of 4 units.

S W 760 Social Work and the Law (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program or consent of instructor.
Social change through the judicial, legislative, and executive processes. (Plus-minus letter grade only)

S W 770 Ethnic and Cultural Concept and Principles I (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program or consent of instructor.
Principles, concepts, theories, and frameworks that address human diversity and affect the local, national, and international contexts of practice, especially as they relate to populations that have been historically disenfranchised, oppressed, under-served/represented, and marginalized. (Plus-minus letter grade only)

S W 771 Ethnic and Cultural Concepts and Principles II (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 770.
Critical analysis and evaluation of diverse social work intervention methods at the micro, mezzo, and macro levels. Innovative and culturally relevant interventions, in local, national and international contexts, to address service needs of historically disenfranchised, oppressed, under-served/represented, and marginalized populations. (Plus-minus letter grade only)

S W 780 Global Poverty (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 770.
Examination of perspectives on causes of poverty and theoretical frameworks that inform anti-poverty programs; measures and indicators of poverty throughout the world. Application of a "poverty aware" approach to individual practice, and methods of using community organizing to design of anti-poverty programs. (Plus-minus letter grade only)

S W 800 Planning and Program Development (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 700; or consent of instructor.
Planning and program development of human service organizations. Needs assessing, analyzing, management planning and programming, marketing, fundraising, and grant writing. (Plus-minus letter grade only)

S W 801 Change Strategies and Professional Values (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 700.
Social work as a profession in relation to social change; effect changes have on present and future relationships. (Plus-minus letter grade only)
S W 810 Health, Illness, and Disordered Behavior (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 710.
Seminar examining health, illness, disability, stress reactions, and psychopathology with implications for social work practice. (Plus-minus letter grade only)

S W 811 Seminar: Organizations, Institutions, and Communities (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 710.
Organizational theories that relate to social service bureaucracies in public and private sectors. (Plus-minus letter grade only)

S W 820 Seminar: Advanced Research Methodology in Social Work (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 720.
Research applied to the design of projects: human subjects protocol and use of computers for research.

S W 830 Seminar: Social Casework (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 730.
Methods of helping individuals cope with personal and social problems.

S W 831 Seminar: Advanced Social Casework (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 830.
Use of relationships and the formulations of psycho-social diagnosis; adaptation of the process to traditional and non-traditional social casework. (Plus-minus letter grade only)

S W 832 Seminar: Social Group Work (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 730.
Small group behavior; social work interventions required for improving relationships within groups.

S W 835 Theories, Methods, and Strategies for Social Action and Change (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 730.
Theoretical, methodological, and strategic bases for social action and change at mezzo, macro, and international levels. Processes and how changes are initiated, adopted, legitimized, established, maintained, and institutionalized. Power, control, and resistance in context of social and economic justice. (Plus-minus letter grade only)

S W 836 Social Action and Change for Economic and Social Justice (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 835.
Select, plan, organize, implement, and evaluate social action and change approaches to achieve social and economic justice, especially for historically oppressed, underrepresented, and undeserved populations. Culturally appropriate, sensitive, and effective methods for organizing and implementing social action/change in international context. (Plus-minus letter grade only)

S W 840 Wellness, Recovery and Psychosocial Rehabilitation in Social Work and Mental Health (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 810 or mental health experience; and consent of instructor.
Examination of concepts and practices of wellness, recovery, psychosocial rehabilitation and system transformation in community mental health. Critical review of diagnostic and treatment issues, disability, healing, and services throughout the lifespan. (Plus-minus letter grade only)
(This course is offered as S W 840 and COUN 840. Students may not repeat the course under an alternate prefix.)

S W 842 Social Work with the Aged (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program.
Social work practice with older people and their families. Policy issues, program design, and the nature of practice in the field of aging. (Plus-minus letter grade only)

S W 843 Child Welfare Practice with Children and Families (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program.
Public child welfare systems. Assessment and intervention with children who have been or are at risk of being abused or neglected, and their families. (Plus-minus letter grade only)

S W 850 Human Services Administration I (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 730; or consent of instructor.
Features that shape social work: policy organization, management, coordination, interpretation, and financing; supervision as an administrative-teaching process and managerial function. (Plus-minus letter grade only)

S W 855 Social Work Education, Professionalism, and Practice (Unit: 1)
Prerequisite: Concurrent enrollment in first-year Social Work foundation courses.
Social work education and practice; profession's code of ethics and values shaping the profession, including social justice and equity. Tools for research and practice include APA guides and cognitive levels. (CR/NC grading only)

S W 862 Child Welfare Policy (Units: 3)
Prerequisite: Restricted to graduate students in Social Work program or consent of instructor.
Analysis of major issues in the provision of public and publicly funded child welfare services. Examination of preventive, supportive, and substitute programs for children/families; changing urban family roles, cultural-racial-class factors, effective development, and children's rights. (Plus-minus letter grade only)

S W 864 Human Services Administration II (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 880.
Management theory applied to public human service agencies. (Plus-minus letter grade only)
S W 865 Social Work Practice in School Settings (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 730; concurrently enrollment in S W 740, S W 741.
Focus is on school social work as part of an interdisciplinary approach to resolving school-related problems, and on social workers as facilitators and advocates in aiding students, families, schools, and communities to achieve educational goals.

S W 880 Computer Technology and Human Services (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; S W 850 (may be taken concurrently).
Computer technology applied to management of social service agencies. Concepts, skills, and tools that can be utilized to manage information systems in social service agencies. Classwork, 1 unit; laboratory, 1 unit. (Plus-minus letter grade only)

S W 890 Integrative Seminar (Units: 3)
Prerequisites: Restricted to graduate students in Social Work program; fourth or final semester of 2-year MSW program.
Must have submitted approved ATC. Application of the five core competencies (direct practice, policy, community organization, human behavior, and research) to practice systems. (CR/NR only)

S W 895 Research Projects in Social Work (Units: 3)
Prerequisites: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC, RP grading only)

S W 898 Master's Thesis (Units: 3)
Prerequisite: Consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC, RP grading only)

S W 899 Independent Study (Units: 1-3)
Prerequisite: Graduate student in Social Work program or consent of instructor.
An intensive study of a particular problem in social work under direction of a member of the social work faculty. Open only to students who have demonstrated ability to do independent work. Enrollment by petition.
Sociology (SOC)

SOC 105 Sociological Perspectives (Units: 3)
Major ideas, concepts, and methods in the study of society: social structure, social interaction, culture, social policy and social change.

Course Attributes:
• D1: Social Sciences

SOC 110 Sexuality in Society (Units: 3)
Introductory exploration of sexuality in its social context. Critical reflection on conventional and individualizing understandings of sexuality. Includes research articles, documentary films, and mainstream television and magazines.
(This course is offered as SXS 110 and SOC 110. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• D1: Social Sciences
• Social Justice

SOC 200 Changing Cities (Units: 3)
(This course is offered as USP 200 and SOC 200. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• D1: Social Sciences
• Social Justice

SOC 245 Social Problems (Units: 4)
Identification and analysis of contemporary social problems: the role of power and ideology in defining social problems, their causes and consequences, evaluation of proposed solutions, and methods of intervention.

Course Attributes:
• D1: Social Sciences
• Social Justice

SOC 272 Social Inequality: Poverty, Wealth, and Privilege (Units: 4)
Prerequisite: ENG 114.

Patterns of social stratification and inequality. Class, status, and power dimensions; cultural variations; patterns of class mobility and change.

SOC 275 Sociology by the Bay (Units: 2)
Speaker series introducing students to sociological research and related work being done in the San Francisco Bay Area or conducted by Bay Area sociologists. (CR/NC grading only)

SOC 293 The Measure of Society: Creating and Displaying Social Information (Units: 3)
Prerequisite: Completion of quantitative reasoning requirement.

Introduction to quantitative methods for measuring social qualities, and basic quantitative tools for analysis and display of data. Covers maps, charts, and tables commonly used in sociological research.

SOC 300GW Sociological Analysis - GWAR (Units: 4)
Prerequisites: Restricted to upper division Sociology majors; completion of two sociology courses with grades of C or better; completion of GE Areas A and B4 requirements [formerly GE Segment I] with a grade of C- or better.

Sociological analysis, writing, and research. (ABC/NC grading only)

Course Attributes:
• Graduation Writing Assessment

SOC 330 Comparative Race and Ethnicity in the U.S.: Class, Gender, and Nation (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examines dynamics of race and racism by analyzing intersections of class, race, gender, and nationalism, including theoretical perspectives shaping the subfield of comparative race and ethnicity in sociology, theories of racial formation, constructivist theory, ethnic boundaries, assimilation, and ethnocentrism. [Formerly ETHS 330]
(This course is offered as RRS 330 and SOC 330. Students may not repeat the course under an alternate prefix.)

Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

SOC 362 The Social Construction of Deviance and Conformity (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Social processes of rulemaking, enforcing, and breaking; theoretical and methodological problems of conceptualizing and analyzing values, rules, power, social judgments, and punishment.

SOC 370 Classical Theories of Society (Units: 4)
Prerequisites: Upper division standing; SOC 300GW; completion of GE Areas A and B4 [formerly GE Segment I].

Fundamental assumptions underlying classical sociological theory. Surveys the works of scholars such as Marx, Durkheim, Weber and other classical thinkers.

SOC 371 Contemporary Theories of Society (Units: 4)
Prerequisites: Upper division standing; SOC 300GW; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Examination of the most salient works in contemporary sociological theory.

SOC 381 Questionnaire Design (Unit: 1)
Prerequisites: Restricted to upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; SOC 300GW, SOC 370 or SOC 371; or consent of instructor. Students are encouraged to enroll in SOC 392.

Introduction to questionnaire design. Topics include maximizing respondent comprehension; techniques for measuring past behaviors and events; effects of question wording; response formats, and question sequence on responses; asking for sensitive information; and matching design and analysis.
SOC 382 Python for Social Scientists (Unit: 1)
Prerequisites: Restricted to upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; SOC 392. Students are encouraged to enroll in SOC 393.

Introduction to Python programming language as a tool to gather social data in electronic form and deliver information to analysis programs (e.g., R, SPSS, QGIS).

SOC 383 R for Social Scientists (Unit: 1)
Prerequisites: Restricted to upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; SOC 392; or consent of instructor. Students are encouraged to enroll in SOC 393.

Introduction to the R statistical package as used in social science research. Illustration of R use in social science research for statistical analysis, data visualization, and spatial description and analysis.

SOC 392 Introduction to Research Methods (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; SOC 300GW, SOC 370 or SOC 371; or consent of instructor.

Nature of scientific research and research design; relationship of research to sociological theory. Classwork, 3 units; laboratory, 1 unit.

SOC 393 Quantitative Analysis of Social Data (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; SOC 392; or consent of instructor.

Techniques of measuring, tabulating, analyzing, and interpreting statistical data. Classwork, 3 units; laboratory, 1 unit.

SOC 394 Sociological Field Methods (Units: 4)
Prerequisites: Upper division standing or consent of instructor; completion of GE Areas A and B4 requirements [formerly GE Segment I]; SOC 392.

Theoretical and practical exploration of sociological methods for studying relationships between day-to-day experiences and broader social structures, ideologies, and inequalities. Field methods include interviewing, participant observation, and content analysis. Special focus on writing, analytical, and presentation skills.

SOC 400 Variations in Human Sexuality (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Variations in sexuality: sexual identity, relationships, behavior, and fantasy; identification of personal and social problems associated with varied sexual lifestyles.
(This course is offered as SXS 400, PSY 450, and SOC 400. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Social Justice

SOC 410 Grassroots Organizing for Change in Communities of Color (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

An advanced examination of grassroots social change movements in communities of color in the U.S.; how they are organized; how they succeed and even fail; by combining social change theory, history, and practical contemporary approaches to grassroots social justice work. [CSL may be available] [formerly ETHS 410]
(This course is offered as RRS 410 and SOC 410. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

SOC 420 Indigenous Media and Social Change (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Examination of contemporary visual culture, particularly commercial culture, for its impact on personal and collective identity. Technical aspects of creating and altering visual media. 
(This course is offered as SOC 420 and ANTH 420. Students may not repeat the course under an alternate prefix.)

SOC 424 Social Movements (Units: 4)
Prerequisite: ENG 214 or equivalent.

Examines social movements and political action in comparative perspective. An examination of origins, tactics, and outcomes of social movements. [CSL may be available]
(This course is offered as PLSI 424 and SOC 424. Students may not repeat the course under an alternate prefix.)

SOC 451 Criminological Theory (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Social, economic, and political context in which criminological theories (past and present) emerged and how they are reflected in legal practices. 
(This course is offered as SOC 451 and C J 452. Students may not repeat the course under an alternate prefix.)

SOC 452 Juvenile Justice (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Analysis of "delinquency," emergence and administration of juvenile law, and analysis of social organizations for youthful offenders. Classwork, 3 units; fieldwork, 1 unit. [CSL may be available]
(This course is offered as SOC 452 and C J 470. Students may not repeat the course under an alternate prefix.)

SOC 455 Punishment and Social Control (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Contemporary and historical methods of punishment and control are examined as reflections of broader trends in society.
SOC 457 Sociology of Law (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Examination of legal institutions, developing knowledge and understanding of the social nature of law, the operation of existing institutions and their relation to social conditions and process.

SOC 461 Ethnic Relations: International Comparisons (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Sociological factors related to ethnic identity, nationalism, and conflict in selected multi-ethnic societies worldwide. Ethnicity in politics, religion, family, education, and work.

SOC 464 Families and Society (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Family variations in the U.S. and the world: historical antecedents and social influences; changing structure of the family, problems, and emerging trends.
Course Attributes:
• UD-D: Social Sciences

SOC 467 Lesbian, Gay, Bisexual, Transgender, and Queer Cultures and Society (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Sociological analysis of the character and development of lesbian, gay, bisexual, transgender, and queer communities and cultures in the context of broader social inequalities and social transformations. Special attention to the historical and social antecedents of the contemporary U.S. Focus on empirical and theoretical work within sociology.
(This course is offered as SOC 467 and SXS 667. Students may not repeat the course under an alternate prefix.)

SOC 468 Social Aspects of Human Sexuality (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Sexuality as human social behavior. Social, cultural, and ethnic causes and consequences of ways of behaving sexually.

SOC 469 Gender and Society (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Sex roles in society. Origin, socialization, and demands of conformity. Restrictions and encouragements for breaking with conventional sex roles.
Course Attributes:
• UD-D: Social Sciences

SOC 471 Societal Change and Development (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Examination of complexities and concern inherent in the understanding of societal change and development. Most salient theories, problems, and solutions in the field. Emphasis on the relationship between societal and global change.

SOC 476 Medical Sociology (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Sociology of health and illness; organization of medical care; therapeutic interaction; medico-social problems; innovation in health care.

SOC 477 Environmental Sociology (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Changing organization of human societies and their relations with the natural environment; environmental consequences of modern cultural beliefs and lifestyles. Social consequences of environmental changes.
Course Attributes:
• UD-D: Social Sciences
• Environmental Sustainability
• Global Perspectives

SOC 480 City in a Global Society (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
(This course is offered as SOC 480 and USP 470. Students may not repeat the course under an alternate prefix.)

SOC 481 Sociology of Brazil (Units: 3)
Prerequisites: Upper division standing, ENG 214 or equivalent.
Broad view of the evolution of Brazilian society, analyses of specific issues that are vital for the understanding of contemporary Brazil, and insights about the relative nature of sociological phenomena through societal comparisons.

SOC 482 Global Immigration and Immigrants (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Social, cultural, and historical issues associated with international migration. Reasons why people migrate and how migration changes social institutions, local communities, whole countries, and the migrants themselves.

SOC 483 Global Sociology (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Global processes and their impact on different societies and individuals. Global theory; social problems such as poverty, hunger, racism, sexism, global warming, labor exploitation.
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives
SOC 484 Population and Social Dynamics (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4
requirements [formerly GE Segment I].
Population dynamics: social factors related to social and environmental
problems of population growth or decline. Human fertility and fertility
control, mortality, and migration. Population policy. Classwork, 3 units;
laboratory, 1 unit.
SOC 485 Political Sociology (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4;
or consent of instructor.
Examination of the social dimensions of power, particularly those
embedded in institutions of the state. Exploring relations between
state and society, social movements, political organization and civic
participation, political culture, voting behavior, and citizenship.
(This course is offered as SOC 485 and PLSI 485. Students may not
repeat the course under an alternate prefix.)
SOC 486 Sociology of Mental Health (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4
requirements [formerly GE Segment I].
Sociological approach to the study of mental health seeking to identify
the social conditions that affect psychological well-being, and to describe
the processes linking social conditions to psychological effects.
SOC 487 Mexican Migrations: A Social History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the historical and contemporary social and legal effects
of immigration flows and deportations by focusing on the development
of the U.S.-Mexico border; U.S. immigration policies, gendered migrations,
and U.S. definitions of belonging as well as exclusion in relation to
Mexican immigration communities.
(This course is offered as SOC 487 and LTNS 487. Students may not
repeat the course under an alternate prefix.)
SOC 490 Sociology of Popular Culture (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration of sociological theories and methods for analyzing historical
and contemporary cultural expressions in popular music, art, film,
television, and advertising.
SOC 491 Ancestors or Data? Culture, Conflict, and NAGPRA (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Political struggles surrounding the creation and implementation of the
1990 Native American Graves Protection and Repatriation Act (NAGPRA).
Analysis of the law, impact of recent court decisions, and specific focus
on cultural conflicts related to the concept of knowledge.
(This course is offered as AIS 490, ANTH 490, and SOC 491. Students
may not repeat the course under an alternate prefix.)
SOC 492 Sociology of Art (Units: 3)
Prerequisites: Upper division standing; completion of GE Segment 1,
including ENG 214 or equivalent.
Sociological perspectives on the social production, distribution, and
consumption of art; art as an expression of collective identity; art as
signifier of the meanings human beings attribute to the social world; and
the relationship between art and social change.
SOC 494 Sociological Research III: Special Projects (Units: 2-4)
Prerequisites: Upper division standing; completion of GE Areas A and B4
requirements [formerly GE Segment I]; SOC 392, SOC 393 (may be taken
concurrently), or equivalents.
Supervised experience in carrying out well-defined research projects.
Enrollment by petition. May be repeated for a total of 6 units.
SOC 500 Senior Seminar (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4
requirements [formerly GE Segment I]; SOC 300GW, SOC 370 or SOC 371,
and SOC 392; or consent of instructor.
Topic to be specified in Class Schedule. May be repeated for a total of 6
units when topics vary. (Plus-minus letter grade only)
SOC 501 Internship: Applied Sociology (Units: 2)
Prerequisites: Senior standing; completion of GE Areas A and B4
requirements [formerly GE Segment I]; SOC 370 or SOC 371, SOC 392;
concurrently enrollment in SOC 502. Contact instructor the semester prior
to enrollment.
Fieldwork in approved public or private organization or agency.
Supervision by organization staff and faculty coordinator. (CR/NC grading
only) [CSL may be available]
SOC 502 Internship Seminar: Applied Sociology (Unit: 1)
Prerequisites: Senior standing; completion of GE Areas A and B4
requirements [formerly GE Segment I]; SOC 370 or SOC 371, SOC 392;
concurrently enrollment in SOC 501. Contact instructor for consent the
semester prior to enrollment.
Analysis of internship experience. (Plus-minus letter grade only) [CSL
may be available]
SOC 503 Research Internship Seminar (Unit: 1)
Prerequisites: Restricted to upper division Sociology majors and minors;
completion of GE Areas A and B4 requirements [formerly GE Segment
I]; SOC 300GW, SOC 370 or SOC 371, SOC 392; concurrent enrollment in
SOC 504; or consent of instructor.
Reflection on sociological research practice, membership in research
communities, dissemination of findings to relevant audiences and
constituencies, and methodological concerns. (Plus-minus letter grade
only)
SOC 504 Research Internship Experience (Units: 2)
Prerequisites: Restricted to upper division Sociology majors and minors;
completion of GE Areas A and B4 requirements [formerly GE Segment
I]; SOC 300GW, SOC 370 or SOC 371, SOC 392; concurrent enrollment in
SOC 503; or consent of instructor.
Sociological research experience, discussion of methods, membership
in research communities, and dissemination of findings to relevant
audiences and constituencies. (CR/NC grading only)
SOC 510 Analysis of the Felon in Society (Units: 3)
Prerequisites: Restricted to upper division Sociology and Criminal Justice
majors; completion of GE Areas A and B4 requirements; or consent of
instructor
Examination of the process of Re-entry (post-incarceration) from the
perspective of individuals who have lived it. Classwork, 1 unit; activities, 2
units.
(This course is offered as SOC 510 and CJ 510. Students may not repeat
the course under an alternate prefix.)
SOC 552 Comparative Employment Relations (Units: 3)
Prerequisite: Upper division standing.

Introduction to the concept of the employment relationship, the main "models" and their key actors; diversity at work to international labor rights and how they are approached and practiced in different countries. (This course is offered as LABR 552 and SOC 552. Students may not repeat the course under an alternate prefix.)

SOC 553 Labor Standards and Corporate Social Responsibility (Units: 3)
Prerequisite: Upper division standing.

Introduction to an overview of recent academic debates on Corporate Social Responsibility, International Labor Standards and "decent work." Codes of conduct, monitoring, and certification labeling/ transparency. (This course is offered as LABR 553 and SOC 553. Students may not repeat the course under an alternate prefix.)

SOC 554 Themes in Comparative Employment Relations (Units: 3)
Prerequisite: Upper division standing.

Introduction to the main "models" that have been used in comparative analysis of national systems of employment relations; the Anglo-Saxon, Japanese, and European social models; discussion of the appropriateness of these models in understanding transforming economies. (This course is offered as LABR 554 and SOC 554. Students may not repeat the course under an alternate prefix.)

SOC 555 Labor Rights in the Global Economy (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Key themes concerning labor rights in the global economy; focus on core labor rights identified by the UN: freedom of association, freedom from child labor; freedom from coerced labor, and freedom from discrimination. (This course is offered as LABR 555 and SOC 555. Students may not repeat the course under an alternate prefix.)

SOC 580 Educational Equity (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Is education the great equalizer? Educational equity and policy issues, including institutional racism, school finance, recruitment/retention of under-represented students, language. [CSL may be available] (This course is offered as LTNS 580, SOC 580, and RRS 580. Students may not repeat the course under an alternate prefix.)

Course Attributes:

• UD-D Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

SOC 640 Sociology of the Latino Experience (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

A comprehensive introduction to sociological perspectives on the Latino/Latina experience in the United States. Historical and structural in approach. (This course is offered as LTNS 640 and SOC 640. Students may not repeat the course under an alternate prefix.)

SOC 645 Sociology of Latin America (Units: 3)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].

Theoretical and empirical exploration of the social structures and processes of identities, inequalities, and struggles associated with class, race, ethnicity, nationality, gender, and sexuality in contemporary Latin American societies.

SOC 685 Projects in the Teaching of Sociology (Units: 1-4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; a minimum grade of B+ in course (or equivalent) student will be assisting in; a cumulative GPA of 3.0; consent of instructor.

Instructional aides have opportunity to increase knowledge of course topic and understanding of processes of teaching and learning. Aides provide assistance to students in class activities such as writing assignments, research projects, preparation for examinations, general study habits. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course[s] numbered 685 regardless of discipline.)

SOC 699 Independent Study (Units: 1-4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I]; consent of instructor, major adviser, and department chair.

Supervised study of a particular problem selected by the student. May be repeated for a total of 4 units.

SOC 899 Independent Study (Units: 1-3)
Prerequisite: Consent of the graduate major adviser, the supervising faculty member, and the department chair. Enrollment by petition.

Study is planned, developed, and completed under the direction of a member of the faculty.
Spanish (SPAN)

SPAN 101 First Semester Spanish (Units: 4)
Introduction to understanding, speaking, reading, and writing Spanish.
Course Attributes:
• C2: Humanities

SPAN 102 Second Semester Spanish (Units: 4)
Prerequisite: SPAN 101 or equivalent.
Understanding, speaking, reading, and writing Spanish; Spanish.
Course Attributes:
• C2: Humanities

SPAN 205 Intermediate Spanish I (Units: 3)
Prerequisites: SPAN 102; placement by advisor; or consent of instructor.
Intermediate course that reinforces and builds on four skills (listening, understanding, reading, and writing) learned in SPAN 101/SPAN 102.

SPAN 206 Intermediate Spanish II (Units: 3)
Prerequisites: SPAN 205; placement by advisor; or consent of instructor.
Continuation of SPAN 205 which reinforces and builds on four skills (listening, understanding, reading, and writing) learned in SPAN 101 and SPAN 102.

SPAN 215 Spanish for Heritage Speakers (Units: 3)
Prerequisites: Spanish heritage learner and consent of instructor.
Designed for heritage language learners. Emphasis on conversation, writing styles, and specific grammatical problems. Additional focus on short stories, essays, poems, plays, newspaper articles, films, all in Spanish.

SPAN 216 Accelerated Grammar, Conversation, and Reading (Units: 3)
Prerequisite: SPAN 102 or placement by advisor or instructor.
Second-year Spanish at an accelerated pace. This course is also appropriate for students, including heritage speakers, whose prior experience with the language places them at a high-intermediate level.

SPAN 301 Advanced Grammar and Composition (Units: 3)
Prerequisite: Four semesters of lower-division Spanish or equivalent.
Problematic aspects of Spanish grammar; practice in expository writing.

SPAN 305 Advanced Composition (Units: 3)
Prerequisite: SPAN 301 or consent of instructor.
Practice in expository writing; forms, development, and organization of the short essay including the study of style.

SPAN 306 Advanced Reading and Conversation (Units: 3)
Prerequisites: SPAN 216 or consent of instructor; concurrent enrollment in SPAN 305.
Oral presentations/group discussions based on readings from novels, plays, and poetry. Not designed for native-level speakers.

SPAN 326 Applied Spanish Linguistics: Morphology and Syntax (Units: 3)
Prerequisites: SPAN 216, SPAN 301 or equivalent.
Application of modern descriptive linguistics to the study of morphology and syntax.

SPAN 341 Introduction to the Reading of Literary Texts (Units: 3)
Prerequisite: SPAN 216 or consent of instructor.
Introduction to the reading and analysis of literary texts.

SPAN 350 Practical and Literary Translation (Units: 3)
Prerequisites: Native fluency in English and moderate competency in understanding, speaking, and reading Spanish.
Theoretical and practical aspects of translation. Exercises in translating Spanish to English. Conducted in both Spanish and English.

SPAN 401GW Culture and Civilization of Spain-GWAR (Units: 3)
Prerequisites: ENG 214 with a grade of C- or better; at least 2 years of college-level Spanish or equivalent.
Culture and civilization of Spain from the Middle Ages to the present. (ABC/NC grading only)
Course Attributes:
• Graduation Writing Assessment

SPAN 405 Culture and Civilization of Spanish America (Units: 3)
Prerequisites: SPAN 305, SPAN 306, or equivalents.
Background for Spanish American literature.

SPAN 492 Early Transatlantic Literature and Culture (Units: 3)
Prerequisites: Four semesters of lower-division Spanish or consent of instructor.
Renaissance and Baroque literature with emphasis on love, mysticism, and Neo-Platonism; review of recent literary theories. Readings and class discussion in Spanish and English.

SPAN 500 Introduction to Literary Criticism (Units: 3)
Prerequisites: Four semesters of lower-division Spanish or consent of instructor.
Techniques in literary interpretation using Spanish prose and poetry.

SPAN 521 Spanish Medieval, Renaissance, and Baroque Literature (Units: 3)
Prerequisite: SPAN 500 or equivalent or consent of instructor.
Exploration of one or more topics relevant to medieval and early modern Spanish literature. Topics to be specified in the class schedule. May be repeated when topics vary.

SPAN 523 19th Century Spanish Literature (Units: 3)
Prerequisite: SPAN 500 or equivalent.
Romanticism, realism, naturalism, and modernism in Spain.

SPAN 525 The Contemporary Spanish Novel (Units: 3)
Prerequisite: SPAN 500 or equivalent.
The contemporary Spanish novel through five of its most representative authors in a selection of novels covering the last decade.

SPAN 543 Spanish American Literature: Romanticism to Modernism
(Units: 3)
Prerequisite: SPAN 500 or equivalent.
A study of the most representative works of the leading Spanish American writers of the second part of the 20th century in poetry, essay, short story, and novel.
SPAN 545 20th Century Spanish American Literature (Units: 3)
Prerequisite: SPAN 500 or equivalent.
Exploration of one or more topics of 20th-century and contemporary Latin American literature. Topics to be specified in the class schedule. May be repeated when topics vary.

SPAN 562 Cervantes: The Quijote (Units: 3)
Prerequisite: SPAN 500 or equivalent.
Reading and analysis of Don Quijote.

SPAN 571 History and Development of the Spanish Language (Units: 3)
Prerequisite: SPAN 301.
Examination of the historical, social, political, cultural forces that shaped the development of the Spanish language from its Indo-European prehistory to its modern worldwide diffusion.

SPAN 580 Hispanic Women Writers (Units: 3)
Prerequisite: SPAN 500 or equivalent.
An exploration of Peninsular and Latin American literature, mainly written by women, that focuses on gender and femininity.

SPAN 595 Senior Survey in Spanish or Spanish American Literature (Units: 3)
Prerequisite: SPAN 500 or equivalent.
Advanced survey of Spanish or Latin American literature. Topics to be specified in the class schedule. May be repeated when topics vary.

SPAN 699 Independent Study (Units: 1-3)
Prerequisite: Consent of department chair and instructor.
Special topics in Spanish. Written projects requiring critical analysis and interpretation of linguistic or literary problems. May be repeated for a total of 9 units.

SPAN 821 Seminar in Spanish Literary Genres (Units: 3)
Prerequisite: Admission to Spanish M.A. program or consent of instructor.
Focus on a specific literary genre in Spanish or Latin American literature. Topics to be specified in Class Schedule. May be repeated when topics vary.

SPAN 831 Seminar in Literary Movements or Periods (Units: 3)
Prerequisite: Admission to Spanish M.A. program or consent of instructor.
Focus on a particular literary movement or period in Spanish or Latin American literature. Topics to be specified in Class Schedule. May be repeated when topics vary.

SPAN 850 Seminar-Spanish and Latin American Literature (Units: 3)
Prerequisite: Graduate standing in Master of Arts in Spanish program or consent of instructor.
Focus on a topic, theme, or problem specific to Spanish or Latin American literature. Topics covered may include, but are not limited to, questions of class, gender, race, national identity, etc. Topics to be specified in Class Schedule. May be repeated as topics vary.

SPAN 880 Seminar in Individual Authors or Works (Units: 3)
Prerequisite: Admission to Spanish program or consent of instructor.
Focus on topics having to do with individual authors and works in Spanish or Latin American literature. Topics to be specified in Class Schedule. May be repeated when topics vary.

SPAN 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.
Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. (CR/NC, RP)

SPAN 899 Independent Study (Units: 1-3)
Prerequisites: Admission to Spanish program or consent of instructor; consent of graduate major adviser and supervising faculty member.
Study is planned, developed, and completed under the direction of a member of the department faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment by petition.
Special Education (SPED)

SPED 310 Exploring Visual Impairments (Units: 3)
Prerequisite: Upper division standing.
Examines challenges posed in daily life for people with visual impairments and their families. Explores options to promote independent living and inclusion in the community for people of all ages and diverse backgrounds. (Plus-minus letter grade only)
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives
• Social Justice

SPED 330 Introduction to Disability (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Ways in which society defines, fosters, and understands disabilities. Children and adults with disabilities as a minority group, and relationships between ethnicity and societal definitions of disability. [CSL may be available]
Course Attributes:
• UD-D: Social Sciences

SPED 370 Young Children Disabled or At Risk and Their Families (Units: 3)
Prerequisite: Upper division standing.
Issues related to the development of infants and toddlers with disabilities: prenatal risk factors; family concerns; and a description of cognitive, social, motor, and language development differences.
Course Attributes:
• UD-D: Social Sciences

SPED 601 Observation and Participation in Special Education (Units: 1-3)
Prerequisite: Admission to special education credential program.
Supervised educational and clinical practice with children and youth with disabilities in schools, hospitals, or clinics as required by field of specialization. May be repeated as required by credential. (CR/NC grading only)

SPED 620 The Science of Early Intervention (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Overview of the science behind early intervention including early brain development, environmental risk factors, and effective early intervention supports that promote family resilience. (Plus-minus letter grade only)
Course Attributes:
• UD-B: Physical Life Science
• Environmental Sustainability
• Social Justice

SPED 630 Inclusive Education: Empowerment and Equity in Diverse Schools (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Focus on critical questions about diversity in education and exploration of inclusive answers in the United States and around the world. Analyze inequality in school systems and address frameworks such as Universal Design for Learning, capacity building, School-Wide Transformation, parent partnerships, and their application in educational contexts. (Plus-minus ABC/NC, CR/NC)

SPED 655 Basic Orientation and Mobility for Learners with Visual Impairments (Units: 3)
Prerequisite: Upper division standing.
Development of spatial and environmental concepts and sensorimotor skills in young learners with visual impairment. Application of orientation and mobility related concepts to travel in home, school, and community environments. (Plus-minus letter grade only) [Formerly SPED 755]
Course Attributes:
• Social Justice
• Teacher Credential Program Crs

SPED 662 Education of Deaf/Hard of Hearing Children (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Overview of program options for deaf and hard of hearing children: oralism, total communication, and bilingual/bicultural communication. Historical and current issues, trends, and legislation. Purposes and services of organizations, agencies, and educational programs. (Plus-minus letter grade only)

SPED 671 Positive Behavior Support for Young Children (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Positive behavior approach to addressing challenging behavior of young children at home and in group settings. Practical ideas for fostering social competence, promoting positive behavior, and preventing the occurrence of undesirable behaviors. (Plus-minus letter grade only)

SPED 672 Inclusive Learning Environments for Young Children (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Practical strategies for including young children with special needs in early childhood settings. Collaborating with professionals and families to provide culturally responsive and individualized learning opportunities. (Plus-minus letter grade only)

SPED 675 Working with Families of Young Children with Disabilities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Strategies for partnering with families of young children birth to five who have disabilities. Perspectives on developmental and ecological systems. Culturally responsive practice in early childhood settings that include children with special needs. (Plus-minus letter grade only)
Course Attributes:
• Social Justice
SPED 688 American Sign Language I (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

American Sign Language (ASL): ASL as a language system; development of expressive/receptive skills and finger spelling. Vocabulary, grammatical principles, aspects of the deaf culture.

Course Attributes:
- UD-D: Social Sciences

SPED 689 American Sign Language II (Units: 3)
Prerequisite: SPED 688.

Additional vocabulary, grammatical information, and exposure to deaf culture; practice in both expressive and receptive skills.

SPED 691 Autism in the Contemporary World (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Examination of experiences and representations of and by people with autism in diverse social and cultural contexts. Exploration of autism through history, portrayals in popular culture, media, film, and literature, aesthetic experiences and expressive forms of imagination and creativity in play, creative arts, writing, and technology, neurodiversity, inclusion, and social justice, and cross-cultural and global perspectives. (Plus-minus letter grade only)

SPED 723 Workshop: Student Teaching Support Sessions for Moderate/Severe Disabilities or Visual Impairments (Units: 3)
Prerequisites: CAP on file; verification of eligibility by department; concurrent enrollment in SPED 730.

Workshop sessions to support student teachers in moderate/severe and visual impairment credential programs. Review planning, guiding, and evaluating experiences during student teaching experience. Includes development of preliminary induction plan. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

SPED 726 Workshop: Student Teaching Support Sessions for Mild/Moderate Disabilities or Orientation Mobility (Units: 3)
Prerequisites: CAP on file; verification of eligibility by department; concurrent enrollment in SPED 730.

Workshop sessions to support student teachers in Mild/Moderate Disabilities or Orientation and Mobility programs. Review planning, guiding, and evaluating experiences during student teaching experience. Includes development of preliminary induction plan. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

SPED 729 Student Teaching Workshop: Early Childhood Special Education (Unit: 1)
Prerequisite: Consent of program or instructor; must be taken concurrently with SPED 730 or SPED 731.

Reviews planning, guiding, and evaluating experiences of students eligible for early childhood special education services. Development of a preliminary induction plan. May be repeated for a total of 2 units. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

SPED 730 Student Teaching: Special Education (Units: 9)
Prerequisite: Completion of advanced curriculum or consent of adviser; must be taken concurrently with SPED 723, SPED 726, or SPED 729 in credential area.

Student teaching field experience in special education setting as required by credential. Units upon advisement. May be repeated for a total of 18 units if required by credential. (CR/NC grading only) (Students who receive a grade of NC twice will be subject to decertification from the credential.) [Formerly SPED 730]

Course Attributes:
- Teacher Credential Program Crs

SPED 731 Special Education Field Experience (Units: 3)
Prerequisite: Completion of advanced curriculum or consent of adviser; concurrent enrollment in SPED 723 or SPED 726 or SPED 729 in credential area.

Student teaching field experience in special education setting as required by credential. Units upon advisement. May be repeated for a total of 6 units if required by credential. (CR/NC grading only) (Students who receive a grade of NC twice will be subject to decertification from the credential.) [Formerly SPED 730]

Course Attributes:
- Teacher Credential Program Crs

SPED 735 Technology for Visually Impaired Students (Units: 2)
Prerequisite: SPED 754 or consent of instructor.

Specialized technology and computer integration for individuals with visual impairments. Use of devices: closed circuit television, word processors, large print displays, voice output, electronic note takers and adaptive materials such as talking calculators and tactile graphics. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

SPED 737 Infant Intervention (Units: 3)
Prerequisite: SPED 777.

Models for disabled infants and families, interagency coordination, program administration, and transdisciplinary team approach. Practicum experience with an atypical infant as part of seminar requirement. Part one of a two-part sequence curriculum series with SPED 738. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs

SPED 738 Preschool Intervention (Units: 3)
Prerequisites: SPED 777, SPED 737 (preferred for M.A. candidates).

Curriculum and instructional models for preschool, interagency coordination, program administration, and collaboration with families. Experience working with disabled preschoolers. (Plus-minus letter grade only)

Course Attributes:
- Teacher Credential Program Crs
SPED 740 Education Specialist Credential Induction Plan (Units: 3)
Prerequisite: Graduate standing; completion of Preliminary Level I Education Specialist Credential and employment in credential area.
Development, implementation, and evaluation of induction plan to clear education specialist credentials for candidates. Maybe repeated for a total of 6 units. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 743 Issues in Augmentative and Alternative Communication (Units: 3)
Prerequisite: Admission to program or consent of instructor.
Physical implications for speech/language development and disorders, aided/unaided communication strategies, assessment and intervention using interdisciplinary strategies for children and adults. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 745 Environmental Design for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: Must be taken concurrently with SPED 773 and SPED 821 (minimum passing grade is B- or above).
Focus on inclusive and integrated service delivery, including historical and philosophical bases, advocacy roles, and collaborative teaming skills necessary to the development and delivery of curriculum. (Minimum passing grade is B- or above.) (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 746 Teaching Individuals with Physical and Other Health Impairments (Units: 3)
Prerequisite: SPED 747 or consent of instructor.
Advanced methods: disabilities assessment, instruction; organization and curriculum design; communication intervention literacy; assistive technology; and collaboration with parents, aides, and other professionals. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 747 Physical Disabilities and Sensory Impairments (Units: 3)
Prerequisite: Admission to MA program or education specialist credential.
Focus on medical information and its implications for instruction, as well as physical management of students with sensory and physical disabilities. Management of special equipment, feeding, positioning and emergency handling procedures. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 749 Medical, Educational, and Rehabilitative Implications of Visual Impairment (Units: 4)
Prerequisite: SPED 655 or SPED 758 or consent of instructor.
Anatomy, physiology and disorders of the eye, and the functional/educational implications of vision loss. Assessment of low vision, use of prescriptive and non-prescriptive low vision aids to optimize use of vision. Application to individualized program planning and implementation. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 750 Assessment for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Formal and informal assessment to determine the unique educational needs and appropriate learning media for individuals with visual impairments. Selection, adaptation, and preparation of instructional materials: print, Braille, and auditory. Evaluation of learning environments and alternative forms of service delivery. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 751 Instruction for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Selection, adaptation, and preparation of instructional materials and design of learning environments. Disability specific academic skills and accessing specialized resources. Adaptation of regular education curriculum for learners with visual impairments. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 752 Issues in Visual Impairment (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Psychosocial and vocational implications of visual impairment. Instructional methods and strategies for transition. Local, state, and national legislation. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs

SPED 753 Living Skills Assessment and Instruction for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Methods and instructional strategies for teaching specialized functional skills to individuals with visual impairments. Design and implement functional and age appropriate programs for learners of different cognitive abilities. (Plus-minus letter grade only)
Course Attributes:
  • Teacher Credential Program Crs
SPED 754 Basic Communication Skills for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Course Attributes:
• Teacher Credential Program Crs

SPED 756 Orientation and Mobility Seminar (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Issues and trends, philosophies, and professional ethics. Service delivery systems and resources for establishment, administration, and supervision of orientation and mobility programs. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 757 Visual Impairment: Special Populations (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Impact of visual impairment on growth and development of learners age 0-22 years. Transdisciplinary approach to serving learners who have multiple impairments. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 758 Advanced Communication Skills for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 754 or consent of instructor.
Advanced formats of Braille codes: literary, mathematical, computer, foreign language, and music. Use of slate and stylus. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 760 Methods in Orientation and Mobility I (Units: 3)
Prerequisite: Concurrent enrollment in SPED 792.
Use of the long cane. Orientation and mobility in indoor and simple residential outdoor environments. Application of concepts to travel in home, school, and community environments. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 761 Instructional Management and Special Populations (Units: 3)
Prerequisite: Admission to Guide Dog Mobility Program.

SPED 763 Transition Planning for Students with Disabilities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Strategies to facilitate the transition from early childhood educational and related services, to services provided in K-12 schools, and to facilitate self-determined careers, post-secondary education, and community living for secondary-aged students with disabilities. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 770 Mild/Moderate Disabilities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Mild/moderate disabilities: definition and diagnosis of learning disabilities, emotional/behavior disorders, and mental retardation. Historical factors and current issues pertaining to public policy and service delivery. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 772 Assessment, Curriculum, and Instruction (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Development of assessment, curriculum, and instructional practices to provide responsive instruction to meet diverse needs of individuals with mild, moderate, and severe disabilities. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 773 Methods of Assessment and Instruction for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: Must be taken concurrently with SPED 745 and SPED 821 (minimum passing grade is B- or above).
Methods of assessment, curriculum, and instruction for students with moderate/severe disabilities, including ecological assessments, standards' based academic curricula, systematic instruction, and methods for evaluating student progress. (Minimum passing grade is B- or above.) (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs

SPED 774 Positive Behavior Support (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Understanding and interpreting behavior; ecological perspectives. Proactive strategies to prevent occurrence and escalation of problem behaviors, evaluation of behavior problems, and implementation of interventions in the least restrictive environment. (Plus-minus letter grade only)
Course Attributes:
• Teacher Credential Program Crs
SPED 775 Advanced Methods in Mild/Moderate Disabilities (Units: 3)
Prerequisites: SPED 770, SPED 772.

Procedures for assessing needs, selecting curriculum priorities, and designing responsive instructional and behavioral plans for meeting the needs of individuals with mild and moderate disabilities. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 777 Development and Learning of Young Children with Special Needs (Units: 3)
Prerequisite: Admission to Special Education specialist credential and master's degree.

Infant and young child development comparisons and among a typical and normal patterns. Implications for early intervention and educational programming. Practical experience with infant and young child. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 778 Advanced Literacy and Instruction (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Focus on current research on literacy and skills related to the development of student literacy. Assessment, curriculum development and instructional practices for teaching reading to students experiencing reading difficulties, especially those with mild to moderate disabilities. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 779 Family Systems and Services for Young Children with Disabilities (Units: 3)
Prerequisite: SPED 777.

Understanding and assessing family systems and caregiver-child interactions; developing intervention programs. Family situations that generate unique needs. Learn how to effectively communicate with families of disabled children and to link families with community support networks. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 780 Assessment and Program Evaluation in Early Childhood Special Education Setting (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Assessment of children from birth to five years; program evaluation design. Analysis of both formal and informal assessments, translation of child and family assessment into educational plans, and overall program evaluation designs. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 787 Advanced Assessment and Instruction for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 745, SPED 773, and SPED 821; must be taken concurrently with SPED 789 and SPED 821 (minimum passing grade is B- or above).

Assessment, curriculum, and instructional design for students with moderate to severe disabilities with special emphasis on students who experience sensory and/or physical disabilities. (Minimum passing grade is B- or above.) (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 788 Law, Ethics, and Instructional Planning (Units: 3)
Prerequisite: Admission to Special Education or Communicative Disorders programs.

Legal foundations and requirements providing public education services to students with disabilities. Policy development, advocacy programs, IEPs, family support plans, technology and universal design, intervention and post-secondary transition. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 789 Advanced Environmental Design for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 745, SPED 773, and SPED 821; must be taken concurrently with SPED 787 and SPED 821 (minimum passing grade is B- or above).

Development of augmentative and alternative communication (AAC) systems for students with moderate/severe disabilities and interventions to promote effective communicative interactions; and development and implementation of positive behavior intervention and support plans for students who present challenging behaviors. (Minimum passing grade is B- or above.) (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 791 Nature of Autism Spectrum Disorders (Units: 3)
Prerequisites: Admission to Special Education credential or MA program or consent of instructor.

Educating diverse learners with Autism Spectrum Disorders, historical and theoretical foundation, etiology, definitions, characteristics, developmental and learning profiles, assessment frameworks and procedures, current and emerging practices, individualized educational supports and service delivery models. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs

SPED 792 Methods in Orientation and Mobility II (Units: 3)
Prerequisite: Concurrent enrollment in SPED 760.

Age-related changes in orientation and mobility needs. Overview of assessment and individualized instructional methods. (Plus-minus letter grade only)
Course Attributes:

• Teacher Credential Program Crs
SPED 794 Communication, Socialization and Imagination: Autism (Units: 3)
Prerequisite: SPED 791 or consent of instructor.
Enhancing communication, socialization, play and imagination in diverse learners with autism spectrum disorders; functional communication, AAC, pragmatic language approaches; environmental supports; adult-directed, child-centered, peer-mediated practices; inclusion with typical peer/siblings in school, home, community settings. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 801 Development, Diversity, and English Language Learners: Special Education (Units: 3)
Prerequisite: Admission to Special Education or Communicative Disorders programs.
Foundation in typical and atypical development, the interaction between diverse cultures, races and disability within the context of changing state and national demographics, and implications of disability for English-Language Learners. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 821 Fieldwork in Moderate/Severe Disabilities (Units: 3)
Prerequisites: Concurrent enrollment in SPED 745, SPED 773, SPED 787, SPED 789.
Supervised fieldwork to promote and support the application of knowledge and skills gained in core methods courses. Sites with educational programs for students with moderate/severe disabilities. May be repeated for a total of 6 units. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 822 Methods in Orientation and Mobility III (Units: 3)
Prerequisites: SPED 760, SPED 792; concurrent enrollment in SPED 823.
Principles of orientation and mobility in simple to complex environments; theories and issues related to architectural design for safety and environmental analysis, traffic systems and transportation systems. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 823 Methods in Orientation and Mobility IV (Units: 3)
Prerequisites: SPED 760, SPED 792; concurrent enrollment in SPED 822.
Principles of mobility in simple to complex areas. Diverse mobility systems and functions, and indications for their use in varying travel environments and by learners of diverse ages and travel needs. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 825 Behavior and Instructional Supports: Autism (Units: 3)
Prerequisite: Admission to Special Education credential or MA program or consent of instructor.
Preparation in design and diverse learners with autism spectrum disorders; data-based assessment and intervention; environmental supports; structured teaching; differentiated instruction; ABA, cognitive, developmental, sensory-based approaches. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 831 Internship in Special Education (Units: 3)
Prerequisite: Graduate standing or consent of graduate adviser.
Practicum in clinics, rehabilitation centers, and schools under supervision of specialists in fields of special education or rehabilitation. May be repeated for a total of 6 units. (CR/NC only)

SPED 833 Educational Services for Learners with Deaf-Blindness (Units: 3)
Prerequisite: Graduate admission to Moderate-Severe Disabilities Program.
Unique needs of learners who are deaf-blind and the best practices for providing appropriate education services for this population of students. (Plus-minus letter grade only)

SPED 881 Advanced Research Seminar in Special Education (Units: 3)
Prerequisites: Advanced standing in master’s degree program; ISED 797. Research designs. Development of problems and hypotheses. Matching research questions to designs. Critique of research studies. Major assignments include written critique and a research proposal. (Plus-minus letter grade only)

SPED 885 Advanced Topics in Special Education (Units: 3)
Prerequisites: Completion of Level I education specialist credential; SPED 740; or consent of instructor.
Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 894 Creative Work Project in Special Education (Units: 3)
Prerequisites: Consent of graduate major advisor, approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.
Design, development, and production of instructional product in degree emphasis. Work may include curriculum or training materials in educational or related setting for professionals, students, and families. A final product and written report required. ATC and Proposal for Culminating Experience Requirement forms must be approved by Graduate Studies before enrollment. (CR/NC, RP grading only)

SPED 895 Field Study: Special Education (Units: 3)
Prerequisites: Approval of the graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC, RP only)
SPED 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered SPED 894, SPED 895, SPED 898, or SPED 998. (CR/NC, RP)

SPED 898 Master’s Thesis (Units: 3)
Prerequisites: Approval of graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC only)

SPED 899 Independent Study (Units: 1-3)
An intensive study of a particular problem in education under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open only to regularly enrolled students.

SPED 902 Public Policy in Special Education (Unit: 1)
Prerequisite: Admission to joint doctoral program and consent of advisor.

Translating federal policy in special education into applications for roles of advocacy, teaching, research and leadership. (Plus-minus letter grade only)

SPED 903 Research Seminar in Special Education: Program Design and Analysis (Units: 3)
Prerequisite: Admission to doctoral program.

Making of inferences between independent and dependent variables in research with disabled persons. Analyze and design experimental research; internal and external validity. Exposure to different designs with purpose of selection of appropriate design to match specific research questions. (Plus-minus letter grade only)

SPED 905 University-level Teaching Internship (Units: 3)
Prerequisite: Admission to education joint doctoral program.

Mentoring support and guidance to doctoral students teaching at university level. Assignments begin at novice level as an observer, with advancement to planning, delivery of instruction including lectures, online activity, assessments, and evaluation. May be repeated for a total of 6 units. (CR/NC only)

SPED 906 University-level Research Internship (Units: 3)
Prerequisite: Admission to Special Education joint doctoral program.

Mentored support and guidance in conducting research. Novice to advanced skills in research design, data collection and analysis, interpretation, and dissemination of findings. Enrollment in two consecutive semesters; may be repeated for a total of 6 units. (CR/NC only)

SPED 907 Learning and Development: The Influence of Disabilities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Development and learning theory applied to individuals with disabilities. Cognitive, language, and social-affective development throughout the lifespan. Interaction styles, learning styles, sequences, rate, modality, and continuity/discontinuity of development and learning. (Plus-minus letter grade only)

SPED 908 Directed Studies: Special Topics (Units: 3)
Prerequisite: Admission to joint doctoral program in special education.

Provides opportunity for student to explore a special topic or problem either as an individual or with a group with special interests. May be repeated for a total of 24 units. (CR/NC only)

SPED 909 Current Issues Special Education Policy and Practice (Units: 3)
Prerequisite: Admission to joint doctoral program.

Joint doctoral program core seminar on contemporary policy issues, practice and research in special education. (Plus-minus letter grade only)

SPED 910 Directed Study Special Topics (Units: 3)
Prerequisite: Admission to the Joint Doctoral Special Education program.

Professional research and service activities, experience expected for post-doctoral professionals. All activities completed under the direction and supervision of a joint doctoral faculty member. Students will select topics and activities that are appropriate to their career goals and areas of specialization upon advisement with their university mentors. Students will register for SPED 910 when engaged in Mentored Research Networks and for their Professional/Community Service Internship. May be repeated for a total of 12 units.

SPED 998 Doctoral Dissertation in Special Education (Units: 3)
Prerequisite: Advancement to candidacy.

Independent research leading to the completion of the doctoral dissertation. Open only to students in the joint doctoral program in special education. May be repeated for a total of 9 units. (CR/NC only)
Technical & Professional Writing (TPW)

TPW 200 Writing Practices in Professional Contexts (Units: 3)
Prerequisite: ENG 114 or equivalent with a grade of C or better.

Introduction to writing practices common in professional workplaces. Analysis of how they influence, and are influenced by, workplace activities and cultures. Topics may include ethics, collaboration, internationalization, common forms, information design, and media choices. (Plus-minus letter grade only)
Course Attributes:

• C2: Humanities

TPW 400GW Fundamentals of Technical and Professional Writing - GWAR (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of C or better.

Forms, methods, standards, and issues central to the work of career writers. Students produce technical instructions, reports, promotions, and correspondence. (ABC/NC grading only)
Course Attributes:

• Graduation Writing Assessment

TPW 470 Writing Professional Promotions (Units: 3)
Prerequisites: Technical and Professional Writing student; ENG 214 or equivalent with a grade of C or better; or consent of instructor.

Developing documents for corporate communications, marketing, public relations, and development purposes. High-tech and non-profit applications. (Plus-minus letter grade only)

TPW 480 Writing Technical Documentation (Units: 3)
Prerequisites: Technical and Professional Writing student; ENG 214 or equivalent with a grade of C or better; or consent of instructor.

Design and develop standard types of technical documentation such as project plans, process descriptions, procedures, tutorials, and usability tests. Topics include audience analysis, writing style, and best practices. (Plus-minus letter grade only)

TPW 490 Grantwriting (Units: 3)
Prerequisites: Technical and Professional Writing student; ENG 214 or equivalent with a grade of C or better; or consent of instructor.

Practice in grant proposal writing and research. Requests from private non-profit organizations to various funding agencies. (Plus-minus letter grade only) [CSL may be available]
Course Attributes:

• Social Justice

TPW 550 Professional Editing (Units: 3)
Prerequisites: Technical and Professional Writing student; ENG 214 or equivalent with a grade of C or better; or consent of instructor.

Expectations for professional editing in the workplace. Development of specialized projects; practice in relevant techniques; application of professional skills, standards, ethics, and methods. Review of grammar, punctuation, and usage. (Plus-minus letter grade only)

TPW 555 Visual Rhetoric and Document Design (Units: 3)
Prerequisite: ENG 214 or equivalent with a grade of C or better.

Principles of design and visual rhetoric; application of those principles in document design. Workshop teaches publication design software. Required laboratory. (Plus-minus letter grade only)

TPW 585 Technical Writing Online (Units: 3)
Prerequisite: TPW 400GW or TPW 480 with a grade of C or better.

Standards and methods for designing, writing, producing technical information presented in electronic formats, such as online help, support websites, interactive demos. Learn basics of a widely used software tool. (Plus-minus letter grade only)

TPW 600 Individual and Team Writing (Units: 3)
Prerequisites: TPW 400GW, TPW 550, TPW 555 with grades of C or better.

Developing professional skills for project management, research, group work, genre analysis, writing, editing production, and presentation. Individual projects explore current tools, trends, and technologies. Teams develop professional materials for local non-profits. (Plus-minus letter grade only) [CSL may be available]
Course Attributes:

• Social Justice

TPW 685 Projects in the Teaching of Technical and Professional Writing (Units: 1-4)
Prerequisites: Completion of course in which student will be aide with a grade of C or better. Requires consent of Technical and Professional Writing adviser; limited to one student per course.

Assist with computer laboratory teaching and complete related projects. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

TPW 695 Internship in Technical and Professional Writing (Units: 3)
Prerequisites: Five TPW core or skill elective courses with grades of C or better, including TPW 400GW, TPW 550, TPW 555.

Develop resume and portfolio. Practice job search and interviewing skills. Field experience: professional writing or editing, including structured supervision and evaluation by program faculty and placement sponsor. (Plus-minus letter grade only)

TPW 699 Independent Study (Units: 1-4)
Prerequisites: Five TPW core or skills elective courses with grades of C or better, including TPW 400GW, TPW 550, TPW 555; consent of instructor.

Special study in some aspect of technical and professional writing, performed under program faculty supervision. May be repeated for a total of 4 units.
Theatre Arts (TH A)

TH A 122 Basic Music I: Piano (Units: 3)
Open to all students without prerequisites. Development of basic skills in music fundamentals and piano. Classwork, 2 units; activity, 1 unit. Extra fee required. [Formerly a topic under MUS 120]
(This course is offered as MUS 122 and TH A 122. Students may not repeat the course under an alternate prefix.)

Course Attributes:
- C1: Arts

TH A 125 Movement I: Skills (Units: 3)
Developing the actor's free and responsive body. Exercises, improvisations, and the performance of movement studies used to develop physical awareness and range of movement. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 130 Acting Workshop I (Units: 3)
The craft of acting. Improvisations, theatre games, and exercises to develop flexibility, imagination, agility, and expressiveness. (Plus-minus letter grade only)

Course Attributes:
- C1: Arts

TH A 131 Rudiments of Music Theory (Units: 3)
Concurrent enrollment in a basic piano class recommended. Comprehensive review and drill of music fundamentals. Development of aural skills; written and analytical knowledge of simple harmony. (This course is offered as MUS 130 and TH A 131. Students may not repeat the course under an alternate prefix.)

TH A 200 Introduction to the Theatre (Units: 3)
Examination of various theatrical arts: acting, directing, designing, playwriting; from the audience's and artist's point of view. Relation between theatre history and issues of contemporary concern. Contains a live viewing component. [Formerly TH A 300]

Course Attributes:
- C1: Arts

TH A 205 Introduction to Technical Theatre and Design (Units: 2)
Theory, terminology, and techniques in the areas of stage scenery, properties, costuming, make-up, lighting, sound, construction, rigging safety, tools, materials, and equipment. (Plus-minus letter grade only)

TH A 206 Beginning Jazz/Pop Piano (Unit: 1)
Introduction to jazz and popular piano performance: left and right-hand chord voicings, right hand improvisation, and rhythmic comping in a variety of stylistic idioms. May be repeated for a total of 3 units. (This course is offered as MUS 206 and TH A 206. Students may not repeat the course under an alternate prefix.)

TH A 221 Fundamentals of Ear Training and Musicianship I (Units: 2)
Prerequisites: Satisfactory performance audition; knowledge of written scales, key signatures, rhythms, intervals, and triads; ability to sing scales.
Ear training and sight singing. Melodic, rhythmic, and harmonic dictation. Laboratory. (This course is offered as MUS 221 and TH A 221. Students may not repeat the course under an alternate prefix.)

TH A 223 Voice I: Skills (Units: 3)
Prerequisite: Theatre Arts major or minor.
The actor's free and responsive voice. Exercises and performance of simple texts used to develop the full range of voice and its coordination with body and emotion.

TH A 230 Acting Workshop II (Units: 3)
Prerequisite: TH A 130 or equivalent.
Actor training: beginning scene study and greater emotional expressiveness. May be repeated for a total of 6 units on advisement. (Plus-minus letter grade only)

TH A 234 Modern Musicianship: Theory, Application and Ear Training I (Units: 3)
Examination of music notation, terminology, rhythm, scales and modes, key signatures and the circle of fifths, intervals, transposition, chords and chord progressions, figured bass, lead sheet notation, Roman numeral analysis and basic structures integrating active performance of all concepts. (This course is offered as MUS 234 and TH A 234. Students may not repeat the course under an alternate prefix.)

TH A 235 Modern Musicianship: Theory, Application and Ear Training II (Units: 3)
Prerequisite: MUS 234.
Continuation of MUS 234. Examination of non-diatonic scales, advanced chords, chord inversions and voicings, chord substitutions, nonharmonic tones, lead sheet notation, Roman numeral analysis, and basic structures. Focus on the integration of written notation and active performance. (This course is offered as MUS 235 and TH A 235. Students may not repeat the course under an alternate prefix.)

TH A 304 Focus on Acting (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Examination and practice of a specific area/influence of theatre and performance. Topic to be specified in Class Schedule. May be repeated for a total of 3 units when topics vary.

TH A 305 Design Graphics for Stage and Screen (Units: 3)
Prerequisite: TH A 205 or consent of instructor.
Design theory and graphics techniques used by set, lighting, and costume designers to express creative ideas. Drafting, sketching, watercolor, mechanical perspective, model-building, scenic painting.

TH A 307 The Singing Actor: Exploring Music through the Craft of Acting (Unit: 1)
Prerequisites: Upper division standing and by audition.
Exploration of song through the craft of acting, with a focus given to storytelling through the intersection of poetic structure and device and musical composition. (Plus-minus letter grade only)
(This course is offered as MUS 307 and TH A 307. Students may not repeat under alternate prefix.)

TH A 310 Scenery and Properties Laboratory and Crew (Units: 2)
Prerequisite: Must be taken concurrently with TH A 205; or consent of instructor.
Practical experiences in phases of technical work associated with university productions in the areas of scenery and properties. Classwork, 1 unit; laboratory, 1 unit. May be repeated for a total of 4 units.

1782
TH A 311 Summer Laboratory and Crew (Units: 2)
Prerequisite: TH A 205 (may be taken concurrently) or consent of instructor.
Practical experiences in phases of technical work associated with university productions in areas of scenery, properties, costumes, lighting, and sound. May be repeated for a total of 4 units.

TH A 312 Costuming and Makeup Laboratory and Crew (Units: 2)
Prerequisite: Concurrent enrollment in TH A 205 or consent of instructor.
Practical experiences in phases of technical work associated with university productions in the areas of costuming and makeup. Classwork, 1 unit; laboratory, 1 unit.

TH A 313 Lighting and Sound Laboratory and Crew (Units: 2)
Prerequisite: Concurrently enrollment in TH A 205 or consent of instructor.
Practical experiences in technical work associated with university productions in the areas of lighting and sound. Classwork, 1 unit; laboratory, 1 unit.

TH A 314 The Design and Craft of Stage Properties (Units: 3)
Prerequisite: TH A 310.
Exploration of properties research and design, construction, and repair, including design and construction drawings, advanced building techniques, storage and rental administration, special effects, production etiquette, and coordination between departments. Lecture, 1 unit; laboratory, 2 units.

TH A 315 Theatre Production: Technical Laboratory and Crew (Unit: 1)
Prerequisite: Consent of instructor.
Practical experience in phases of technical work associated with university productions in the areas of scenery, scenic painting, properties, lighting, sound, costuming, or makeup. May be repeated for a total of 6 units.

TH A 318 Voice Major (Unit: 1)
Prerequisites: Music and Drama majors; audition; and/or concurrent enrollment in MUS 150, MUS 394, a vocal or choral ensemble as assigned; approval of department. B.A. students must have completed lower division preparation.
Vocal study for the music degree. May be repeated for a total of 8 units for music performance majors; for other majors, may be repeated for a total of 2 units. (Plus-minus letter grade only)
(This course is offered as MUS 313 and TH A 318. Students may not repeat the course under an alternate prefix.)

TH A 323 Light Board Operation (Unit: 1)
Prerequisite: Upper division standing.
Exploration and training in modern theatrical light board control. May be repeated for a total of 3 units.

TH A 324 Light and Performance: Translating Real World Lighting Environments to the Stage, Dance, and Opera (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of the way light changes space; investigation of lighting requirements for dance, opera, and theatre; expansion of skills to communicate about light. Classwork, 2 units; laboratory, 1 unit.

TH A 325 Advanced Lighting Practicum (Unit: 1)
Prerequisite: TH A 313 or consent of instructor.
Advanced experiences in maintenance and repair of lighting equipment. May be repeated for a total 3 units.

TH A 330 Acting Workshop III (Units: 3)
Prerequisites: TH A 125, TH A 223, TH A 230, audition.
Creating roles through intensive scene study. Approaches to individual actor problems. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 332 Asian Acting for Western Actors (Units: 3)
Prerequisites: TH A 130 and audition or consent of instructor.
Principles of acting based on Asian models: physical training for "Western" actors. Models include: No, Kabuki, the Suzuki Method, and Beijing opera. May be repeated for a total of 6 units.

TH A 333 Lyric Theatre Workshop (Units: 3)
Prerequisite: TH A 230 (may be taken concurrently) or consent of instructor.
Fundamental techniques of lyric theatre. Integration of acting, singing, and movement as utilized in music theatre performance, and in preparation for TH A 433. (Plus-minus letter grade only)

TH A 334 Scene Study for Opera (Unit: 1)
Prerequisites: Audition or consent of instructor; concurrent enrollment in MUS 376.
Practicum in acting technique for opera through scene study of non-musical and musical scenes. Creation of roles through characterization, style, technique, research. May be repeated for a total of 3 units.

TH A 335 Rehearsal and Performance Technique (Unit: 1)
Prerequisite: Audition.
Work on a major production with rehearsal and performance as requirements. Laboratory. May be repeated as often as admitted by audition. May not be counted towards major or minor requirements in drama. (CR/NC grading only)

TH A 340 Principles of Directing (Units: 3)
Prerequisites: TH A 230, TH A 310, or equivalents.
The qualifications of the director; the choice of plays for production; tryouts and methods of casting; preparation of the play script; building the rehearsal schedule; fundamentals of composition, movement, stage business, and characterization. Directing laboratory. (Plus-minus letter grade only)

TH A 341 History of Directing (Units: 3)
Prerequisite: TH A 130.
Introduction to the principal schools of stage direction as practiced by directors past and present. Lecture/demonstrations covering nascent stages of Duke of Saxe-Meiningen and Antoine, and culminating with contemporary artists such as Mouchkine, Brook, Wilson.

TH A 398 Vocal/Jazz Modern Music (Unit: 1)
Prerequisite: Audition.
Two- to eight-piece interactive groups in a variety of styles. May be repeated for a total of 12 units. [Formerly a topic under MUS 388]
(This course is offered as MUS 398 and TH A 398. Students may not repeat the course under an alternate prefix.)
TH A 399 Jazz/Modern Music Combo (Unit: 1)
Prerequisite: Audition.

Two- to eight-piece instrumental groups that perform in a variety of styles. These can include, but are not limited to, Blues-R&B, Swing, Bop and Straight-ahead, Rock Fusion, and various Latin Jazz styles. May be repeated for a total of 12 units. [Formerly a topic under MUS 388] (This course is offered as MUS 399 and TH A 399. Students may not repeat the course under an alternate prefix.)

TH A 401 Theatre Backgrounds: 500 B.C. - 1642 (Units: 3)
Prerequisite: Completion of 29 units. Enrollment priority given to Theatre Arts majors.
The physical structure, representative plays, personalities, practices, and theatre traditions from the Greek period to 1642.

TH A 402 Theatre Backgrounds: 1642 - 1900 (Units: 3)
Prerequisite: Completion of 29 units.
Enrollment priority given to theatre arts majors. The physical structure, representative plays, personalities, practices, and theatre traditions from 1642 to 1900.

TH A 403 Theatre Backgrounds: 1900 - Present (Units: 3)
Prerequisite: Completion of 29 units.
Enrollment priority given to theatre arts majors. The physical structure, representative plays, personalities, practices, and theatre traditions from 1900 to the present.

TH A 404 Musical Theatre History and Literature (Units: 3)
Prerequisite: Lower division GE Area C: Arts and Humanities.

Examination of the historical, philosophical, and significant emergence of the musical theatre. Exploration of the context of the musical throughout history as a multicultural study of Musical Theatre, and of specific works of literature pertaining to the creation of librettos, books, and scores of musicals.

TH A 405GW Writing about Theatre - GWAR (Units: 3)
Prerequisites: Theatre Arts majors; ENG 214 or equivalent with a grade of C or better.

Instruction and practice in writing about theatre performance, theatre history, dramatic literature, design with literacy and precision. (ABC/NC grading only)

Course Attributes:

- Graduation Writing Assessment

TH A 406 The Art of Comedy (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Techniques and materials of the art of comedy. Consideration of what makes people laugh, from simple jokes to intricate stage farces. Discussions with working comedians, comic actors, and writers.

Course Attributes:

- UD-C: Arts and/or Humanities

TH A 407 Popular Theatre/Popular Entertainment (Units: 3)
Prerequisite: Sophomore standing or above.
Theatrical forms which have or once had a large appreciative public. These popular forms include: musical theatre, puppetry, melodrama, circus, farce, physical comedy, cabaret, Peking opera. Examined through lectures and discussion.

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

TH A 408 Asian Plays and Performance Styles: Japan (Units: 3)
Prerequisite: Upper division standing.
An examination of drama, performance, theatrical aesthetics, and conventions of production in Japan.

Course Attributes:

- UD-C: Arts and/or Humanities
- Global Perspectives

TH A 410 Scene Design for Stage and Screen (Units: 3)
Prerequisite: Upper division standing.
Stage and production design for various forms of theatre, television, and cinema. Developing floor plans; methods of pictorial representation, scale drawings, color perspective, models. Scene painting laboratory. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 411 Costume Design for Stage and Screen (Units: 3)
Prerequisites: TH A 205, TH A 305, TH A 504 or TH A 505, or consent of instructor.
Stage and film costume design. Character and script analysis. Theoretical design projects in various theatrical genres. Use of various media and styles of design presentation. Crew required. (Plus-minus letter grade only)

TH A 413 Stage Lighting Design I (Units: 3)
Prerequisites: TH A 205, TH A 305, TH A 313.
Stage lighting design process. How a design is created. In-depth coverage of stage lighting fixtures, graphics, color, and angle in light, and the point of view in design. Crew required. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 414 Technical Direction (Units: 3)
Prerequisite: TH A 310.
Theory and practice in managing the theatrical construction and installation process. Emphasis on working drawings (drafting) and paperwork. Classwork, 2 units; laboratory, 1 unit.

TH A 415 Area Study in Theatre Production (Units: 1-3)
Prerequisites: TH A 310, TH A 312, TH A 313, TH A 315, or equivalents.

Area and unit value to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary.

TH A 425 Movement Styles II (Units: 3)
Prerequisite: Enrollment through audition or consent of instructor.
Movement training; styles, such as mime, commedia, use of masks to develop the actor’s versatility, control of movement and creative imagination. Laboratory. May be repeated for a total of 6 units. (Plus-minus letter grade only)
TH A 433 Musical Theatre Workshop (Units: 3)
Prerequisites: Audition; concurrent enrollment in MUS 211 and MUS 212.
Practice in acting, singing, and dancing through participation in scenes from musical plays. Laboratory. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 435 Theatrical Audition (Units: 3)
Prerequisite: TH A 230 or equivalent.
Preparation for audition situations. Development of skills in sight-reading; selection, and rehearsal of appropriate pieces. Investigation of opportunities in professional and semi-professional theatre. Laboratory. (Plus-minus letter grade only)

TH A 436 Theatre Workshop I (Unit: 1)
Prerequisites: TH A 130, TH A 230 or equivalent.
Topic to be specified in Class Schedule. May be repeated for a total of 3 units when topics vary. Experiences in the acting and/or directing of plays, cross-disciplinary productions, improvisations, theatre games, and other experimental media of theatrical expression. (Plus-minus letter grade only)

TH A 440 Acting/Directing Workshop (Units: 3)
Prerequisites: For actors: TH A 230 and audition. For directors: TH A 340 and consent of instructor.
Extensive participation in the performance of student-directed scenes from plays of various types and periods. Laboratory. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 450 Storytelling for Teaching STEM Subjects (Unit: 1)
Prerequisite: Upper division standing or consent of instructor.
Examination of storytelling for teaching STEM subjects in K-16 settings and importance of stimulating students with different learning styles. Discussion and practice of storytelling skills with STEM teaching: integrating storytelling into the curriculum; introductions; interactive, student-centered, and physical storytelling. May be repeated for a total of 2 units.

TH A 451 Storytelling and Folk Literature (Units: 3)
Prerequisite: Upper division standing.
Methods and techniques of storytelling using selections from folktales, myths, legends, fables, and special types of poetry. (Plus-minus letter grade only)
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Global Perspectives

TH A 452 Theatre in Education (Units: 3)
Prerequisite: Graduate standing or upper division standing or consent of instructor.
Methods of integrating theatre techniques into K-12 classroom curriculum. Selected applications from the following: improvisation, storytelling, and creative dramas. (TH A 752/TH A 452 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

TH A 454 The Business of Acting (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Examination of social/cultural contexts of actors in different cultures past to present. Analysis of process actors use to find acting or theatre related careers: Business skills, agents, resumes, headshots; audition research, digital technology to improve monologue performance for auditions.
Course Attributes:
  • UD-C: Arts and/or Humanities
  • Global Perspectives

TH A 460 Play Development Workshop (Units: 3)
Prerequisite: TH A 130 or TH A 200 or equivalent.
Workshop in which playwrights, directors, actors, and designers develop and refine new theatre pieces by producing them. Studio development of new plays from existing drafts through staged readings to showcase productions.

TH A 490 Dance Theatre Workshop (Units: 1-3)
Prerequisites: Restricted to Dance and Theatre Arts majors and minors; TH A 130, DANC 170; audition.
Creative laboratory for exploration of expressive continuum of dancing, singing and speaking in contemporary multi-disciplinary performance. Activity. May be repeated for a total of 9 units. (Plus-minus letter grade only)
(This course is offered as DANC 490 and TH A 490. Students may not repeat the course under an alternate prefix.)

TH A 501 Topics in Theatre Performance, Dramatic Literature, and History (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Exploration of theatre performance, dramatic literature and history of specific periods and artists. Consideration of innovative developments and theories in world theatre, special attention to prospects for new and future productions. Topic to be specified in Class Schedule. May be repeated for a total of 6 units.

TH A 504 Historical Styles for the Theater: Decor (Units: 3)
Prerequisite: TH A 205 or consent of instructor.
World history of decor, ornament, architecture, and theatrical design; periods with significant dramatic literature canons and/or influential cultural contributions. Visual research methods.

TH A 505 Historical Styles for the Theater: Clothing (Units: 3)
Prerequisite: TH A 205 or consent of instructor.
World history of clothing and costume, emphasizing periods with significant dramatic literature canons and/or influential cultural contributions. Visual research methods. (Plus-minus letter grade only)
TH A 507 Jazz and Blues in Film (Units: 3)
Prerequisite: Upper Division Standing
Survey of the history and impact of jazz and blues on the Hollywood film industry from the early "soun
dies" and "The Jazz Singer" to modern day blockbusters. Noted jazz composers such as Henry Mancini, Quincy Jones, and Olive Nelson will be included, as well as works by jazz-influenced composers of the 1970's film era, such as Marvin Gaye, Isaac Hayes, and Melba Liston.
(This course is offered as MUS 507, HUM 321, and TH A 507. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

TH A 510 Advanced Stagecraft (Units: 3)
Prerequisite: TH A 310 or equivalent.
Drafting stage carpentry and working with various construction materials; problems of stage rigging, stage machinery and special effects; organization and operation of the scene construction shop. May be repeated for a total of 6 units. Laboratory. (Plus-minus letter grade only)

TH A 512 Theatre Costume Design and Construction (Units: 3)
Prerequisite: TH A 312 or equivalent.
Pattern drafting, wardrobe plotting, choice of materials, techniques in adapting historical styles. Work on crews for productions. May be repeated for a total of 6 units. Laboratory. (Plus-minus letter grade only)

TH A 515 Leadership and Organization for Production (Units: 3)
Prerequisites: TH A 310, TH A 312, TH A 313, or equivalents.
Application of principles of stage management to theatre productions; projects in organization and supervision of crews or production companies. Work on productions required. May be repeated for a total of 6 units. Classwork, 2 units; laboratory, 1 unit. (Plus-minus letter grade only)

TH A 519 Theatre Management (Unit: 1)
Prerequisites: Upper division standing; TH A 310, TH A 312, TH A 313; concurrent enrollment in TH A 520.
Public relations, promotion and publicity, practical experience in box office and house management. May be repeated for a total of 2 units.

TH A 520 Theatre Management Laboratory (Units: 2)
Prerequisites: Upper division standing, TH A 519 (may be taken concurrently)
Laboratory for theatre management course. Four hours weekly required. May be repeated for a total of 4 units.

TH A 530 Acting: The Play (Units: 3)
Prerequisites: TH A 223, TH A 230, TH A 312, audition.
Performance techniques through detailed work on faculty-directed scripts; integration of theory and techniques of acting. Laboratory. May be repeated for a total of 9 units.

TH A 531 Styles of Acting (Units: 3)
Prerequisite: Audition.
Advanced topics in theatre performance such as navigating heightened text. Laboratory. Topic to be specified in Class Schedule. May be repeated when topics vary.

TH A 532 Asian Theatre Workshop (Units: 3)
Prerequisites: TH A 130 and audition or consent of instructor.
Analytical and creative study of Asian theatre; practice in acting and directing traditional Asian theatre pieces or Western plays with Asian techniques; development of new performance style based on Asian examples. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 533 Advanced Musical Theatre Workshop (Units: 3)
Prerequisites: TH A 433 and audition.
Advanced practice in performance techniques for musical plays, with participation in selected scenes. May be repeated for a total of 6 units. Laboratory. (Plus-minus letter grade only)

TH A 557 Acting for the Camera (Units: 3)
Prerequisites: TH A 230, TH A 330, audition.
The rehearsal, directing, and recording of dramatic performance for the media of television and video. Emphasis is on the collaboration between actor and director at every stage of the process. Actors must have performance experience.

TH A 558 Writing and Performing in Film and Theatre (Units: 3)
Prerequisites: Upper division Cinema majors and minors; TH A 230 or CINE 454 or CINE 456 or equivalent; or consent of instructor.
Workshop brings each student through practical hands-on exercises in writing, directing and working with actors. [Formerly CINE 555]
(This course is offered as CINE 654 and TH A 558. Students may not repeat the course under an alternate prefix.)

TH A 559 Women in Jazz (Units: 3)
Prerequisite: MUS 506 or consent of instructor.
The role of women in the history of jazz. [Formerly a topic under MUS 558]
(This course is offered as MUS 559 and TH A 559. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- U.S. History
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities

TH A 605 Writing and Performing Monologues (Units: 3)
Prerequisites: Restricted to Creative Writing, English Education, and Drama majors; TH A 130. For C W majors: C W 301, C W 311G or C W 512G or C W 513G.
Workshop in creation of contemporary performance monologues. Development of original pieces through writing, performance, and critique; study of artists in the field.
(This course is offered as TH A 605 and C W 605. Students may not repeat the course under an alternate prefix.)

TH A 609 Theatre Design and Computers (Units: 3)
Prerequisites: TH A 205, TH A 410 or TH A 413.
Exploration of the tools, programs, and applications involved with computer assisted design for lighting or scenery for the stage. May be repeated for a total of 6 units.
TH A 610 Practicum in Theatre (Units: 3)
Prerequisite: Consent of supervising staff.

Individual projects in costume, make-up, lighting, or scene design; properties, stagecraft; theatre administration or theatre architecture. May be repeated in a different area for a total of 12 units. (Plus-minus letter grade only)

TH A 611 Seminar in Costume Design and Technology (Units: 3)
Prerequisites: TH A 411 and TH A 504 or TH A 505.

The role of costume design and technology in modern theatre practices. Topic to be specified in Class Schedule. May be repeated for a total of 12 units when topics vary. (Plus-minus letter grade only)

TH A 613 Stage Lighting Design II (Units: 3)
Prerequisites: TH A 205, TH A 305, TH A 313, and TH A 413.

Lighting designs for opera, dance, and theatre. Students design productions for class and productions for the university. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 615 Seminar in Technical Theatre Arts (Units: 3)
Prerequisites: Senior standing; TH A 410, TH A 413, TH A 512, TH A 519, or equivalents related to seminar topic.

Variable topics, each exploring specific problems in theatrical Scenic Design and Technical Production. Topic to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary.

TH A 657 Practicum in School and Community Drama (Units: 3)
Prerequisite: Consent of department.

Supervised fieldwork experience in conjunction with school and community performing arts program. May be repeated for a total of 6 units with consent of supervisor. (Plus-minus letter grade only)

TH A 660 Advanced Play Development Workshop (Units: 3)
Prerequisites: TH A 130 or TH A 340 or TH A 460, consent of instructor.

Development of original plays by students, through rehearsal and presentation of staged readings. New plays: the process and technique of mounting the staged reading for playwrights, directors, and dramaturgs.

TH A 661 Play Development Showcase (Units: 3)
Prerequisites: Upper division standing, consent of instructor.

Development and presentation of short plays and monologues by SF State students. Writers, actors, and directors collaborate in rehearsal, production, and performance. Admission by audition/submission and permission of instructor only. May be repeated for a total of 9 units.

TH A 671 Stage Management (Units: 3)
Prerequisites: Any two of the following: TH A 310, TH A 312, TH A 313, or equivalents.

Advanced theoretical and practical application of stage management techniques; examination of the resources and responsibilities of a successful stage manager at SF State and in the professional arena. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 685 Projects in the Teaching of Theatre Arts (Units: 1-3)
Prerequisites: Theatre Arts majors; TH A 130; completion of course in instructional subject matter; consent of instructor.

The teaching practicum provides students with an opportunity to serve as an instructional aide, participate in the teaching of a regular instructionally-related Theatre Arts class, and learn about educational theatre through fieldwork. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

TH A 690 Brown Bag Theatre Company (Units: 3)
Prerequisites: TH A 130, TH A 230, TH A 223, audition; concurrent enrollment in TH A 330.

Intensive study and studio presentation of 14 different texts during the semester. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 691 Advanced Multicultural Production Workshop (Units: 3)
Prerequisites: TH A 230, TH A 310, TH A 312, or equivalents; interview/audition.

Participation in a performing company which uses multicultural, multi-ethnic theatrical material. Experiences in all aspects of play production, with attention to demands of non-Western European repertory. May be repeated for a total of 6 units.

TH A 699 Independent Study (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Special projects/independent study of some aspect of the field, under supervision of a faculty member of the department. May be repeated.

TH A 700 Theatre Research and Writing Practicum (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Introduction to theatre research methods and the writing of essays about theatre. Students write and discuss papers that reflect advanced skills in composition, research, and criticism.

TH A 701 Seminar: Theatrical History and Historiography (Units: 3)
Prerequisite: TH A 401 or ENG 570 or ENG 571 or equivalent.

Selected topics from theatrical history. Special emphasis on the relation between the theatre and its cultural contexts, the uses of theatrical history in contemporary production, and on the techniques of production reconstruction. (Plus-minus letter grade only)

TH A 702 Shakespeare: Text and Performance Seminar (Units: 3)
Prerequisite: TH A 401 or ENG 570, or equivalent.

An exploration of representative Shakespearean texts and their expressions as performance.

TH A 703 Seminar: The American Stage (Units: 3)
Prerequisite: TH A 402 or ENG 574 or equivalent.

The American tradition in the theatre; major plays and productions from O'Neill to the present. (Plus-minus letter grade only)

TH A 704 Seminar: Contemporary Plays and Performance (Units: 3)
Prerequisite: TH A 402 or ENG 574 or equivalent.

Playwrights and production styles in the contemporary theatre. The "new naturalism," performance art, and post-modernism. (Plus-minus letter grade only)
TH A 705 Playcrafting and Dramaturgy (Units: 3)
Prerequisite: Undergraduate background as appropriate.

Close study of play development and dramaturgy, with special emphasis on the construction of performance scenarios and on the director-dramaturg collaboration.

TH A 707 Thesis Proposal (Unit: 1)
Prerequisite: Graduate standing or consent of instructor.

Completion of a thesis proposal or creative work project proposal with a faculty adviser. Must be completed satisfactorily prior to taking TH A 894 or TH A 898.

TH A 709 Seminar: Dramatic Literature and Criticism (Units: 3)
Prerequisite: A graduate course in theatre backgrounds and/or dramatic literature.

Contemporary approaches in dramatic criticism applied to selected works of dramatic literature. (Plus-minus letter grade only)

TH A 711 Collaborative Processes in Theatre (Units: 3)
Prerequisite: Classified M.F.A. standing in Theatre Arts or consent of instructor.

Graduate colloquium addressing the processes of theatrical collaboration. (Plus-minus letter grade only.)

TH A 712 Portfolio Development (Unit: 1)
Prerequisites: Upper division or graduate standing; TH A 750, TH A 610/TH A 810; and consent of instructor.

Supervised development of materials for design/technical theatre portfolios, workshops in presentation, interview techniques. Introduction to entertainment industry business practices.

TH A 732 Seminar: Topics in Asian Theatre (Units: 3)
Prerequisite: Classified graduate standing in Theatre Arts program or consent of instructor.

Close examination of theatrical theory and practice in selected Asian forms, including but not limited to Noh, Kabuki, and Beijing Opera. May be repeated for a total of 6 units.

TH A 740 Play Production Concepts (Units: 3)
Prerequisite: Classified M.F.A. standing in Theatre Arts or consent of instructor.

Methods and principles that encourage a conceptual approach toward play production. Formal techniques and thematic studies that provide the theatre practitioner with a coherent perspective for the interpretation of dramatic material. (Plus-minus letter grade only)

TH A 750 Design Studio (Units: 3)
Prerequisites: Classified graduate standing in Theatre Arts and consent of instructor.

Tutorial studio exploration of design problems in theatre arts/drama. May be repeated for a total of 9 units. (Plus-minus letter grade only)

TH A 752 Theatre in Education (Units: 3)
Prerequisite: Graduate standing or upper division standing or consent of instructor.

Methods of integrating theatre techniques into K-12 classroom curriculum. Selected applications from the following: improvisation, storytelling, and creative dramatics. (TH A 752/TH A 452 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

TH A 757 Internship in Theatre (Units: 3)
Prerequisites: Final year in M.F.A. in theatre arts and consent of department.

Assignment, under faculty supervision, to professional production with Bay Area theatre companies, performing arts agencies, or production organizations. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 810 Advanced Practicum in Theatre (Units: 3)
Prerequisites: Classified graduate standing in Theatre Arts and consent of instructor.

Development, solution, and presentation of design problems for professional theatre. (Plus-minus letter grade only)

TH A 852 Directed Experience in Drama Education (Units: 3)
Prerequisite: Consent of department.

Supervised observation and directed experience in the teaching of drama courses; analysis of teaching problems. May be repeated for a total of 6 units. (Plus-minus letter grade only)

TH A 894 Creative Work Project (Units: 3)
Prerequisites: Consent of graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (Plus-minus letter grade only)

TH A 896 Directed Readings for M.A. Drama Comprehensive Examination (Units: 3)
Prerequisites: Consent of instructor and completion of two core courses in M.A. Drama program.

Preparation for a culminating experience in drama through a series of advanced readings in dramatic literature and theory, theatre history, and performance studies that are completed by the taking of an examination. (CR/NC only)

TH A 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered TH A 894 and TH A 898. (CR/NC, RP)

TH A 897 Research for Thesis and Creative Work Projects in Drama (Units: 3)
Prerequisites: Consent of instructor and completion of two core graduate seminars in M.A. Drama program. Research and completion of a thesis or creative work project proposal with faculty guidance and instruction. Includes reading of dramatic literature, choosing and developing a topic in detailed written statement. (CR/NC only)
TH A 898 Master’s Thesis (Units: 3)
Prerequisites: Consent of graduate major advisor, and approval of
Advancement to Candidacy (ATC) and Culminating Experience (CE) forms
by Graduate Studies.

Advancement to Candidacy and Proposal for Culminating Experience
Requirement forms must be approved by the Graduate Division before
registration. (CR/NC grading only)

TH A 899 Independent Study (Units: 3)
Prerequisites: Classified graduate standing and consent of instructor.

Special project/independent study of some aspect of the field related to
the student’s final thesis or project. May be repeated for a total of 6 units.
(Plus/minus letter grade only)
Urban Studies and Planning (USP)

USP 200 Changing Cities (Units: 3)
Changing cities in a global world. Multi-disciplinary social science perspectives on city life. Social, cultural, and ethnic diversity. Metropolitan regions. Strategies for creating social justice and environmental sustainability. Experiencing the city. (This course is offered as USP 200 and SOC 200. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- D1: Social Sciences
- Social Justice

USP 400 Dynamics of the American City (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
Historical development and contemporary condition of urban America, city planning, federal-city relations; dynamics of urban policy making; class, gender, race, and ethnicity in urban America. (This course is offered as USP 400 and HI 489. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Social Justice

USP 401GW Seminar in Urban Studies and Planning - GWAR (Units: 3)
Prerequisites: Restricted to upper division Urban Studies and Planning majors and minors; ENG 214 or equivalent with a grade of C or better; or consent of instructor.
Lectures and discussion of seminal basic and contemporary writings on the most important topics in urban studies and planning. Intensive practice in written and oral communication skills. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

USP 402 Introduction to Planning History and Theory (Units: 3)
Prerequisites: Upper division standing; any GWAR course.
A history of urban planning, primarily in the U.S. from its roots in the 19th century to its development as a contemporary civic endeavor. Examination of the relationship between planning theory and practice based on classic and current readings.

USP 432 Urban Geography (Units: 4)
Prerequisite: ENG 214 or equivalent.
Geographic characteristics of cities in relation to evolution, morphology, and function. The internal and external relationships of diversified urban areas. Classwork, 3 units; fieldwork, 1 unit. (This course is offered as GEG 432 and USP 432. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- Environmental Sustainability
- Global Perspectives

USP 433 Urban Transportation (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Interrelationship between urban transportation systems and internal spatial pattern of urban areas. Impact of the automobile and mass transit modes on urban morphology. Regional transportation planning methodology. Classwork, 3 units; fieldwork, 1 unit. (This course is offered as GEOG 433 and USP 433. Students may not repeat the course under an alternate prefix.)

USP 456 Urban Community Organizing and Citizen Action (Units: 3)
Prerequisites: Restricted to upper division Social Work and Urban Studies and Planning majors; S W 400, S W 401, S W 402; or consent of instructor.
History and current developments in community organization in the city. Principles and strategies of developing citizen action organizations. Role of community organizing and citizen participation in urban social programs. (This course is offered as S W 456 and USP 456. Students may not repeat the course under an alternate prefix.)

USP 470 City in a Global Society (Units: 4)
Prerequisites: Upper division standing; completion of GE Areas A and B4 requirements [formerly GE Segment I].
Urban life and settings in U.S. and internationally. Analysis of impact of the global context. Economic, ethnic, gender, cultural, political, and technological changes. (This course is offered as SOC 480 and USP 470. Students may not repeat the course under an alternate prefix.)

USP 480 Introduction to Urban Policy and Analysis (Units: 4)
Prerequisite: Upper division standing.
Political and institutional settings for policy making. Concepts and techniques of policy, planning, and administration. (This course is offered as PLSI 480 and USP 480. Students may not repeat the course under an alternate prefix.)

USP 485 San Francisco Political Issues (Units: 4)
Prerequisite: Upper division standing.
Political mobilization and governance. Electoral processes. Economic, ethnic, and cultural conflicts. May be repeated with consent of the instructor. [CSL may be available] (This course is offered as PLSI 475 and USP 485. Students may not repeat the course under an alternate prefix.)

USP 492 Research Methods (Units: 4)
Prerequisite: Upper division standing.
Problem formulation; research design; data collection, organization, and analysis; introduction to computer generated analyses; report writing and presentation; applied research. Classwork, 3 units; laboratory, 1 unit. (This course is offered as USP 492 and PLSI 492. Students may not repeat the course under an alternate prefix.)

USP 493 Data Analysis (Units: 4)
Prerequisite: PLSI 492/USP 492 or equivalent.
Statistical analysis for politics, public policy, administration, and urban studies. Uses, interpretation, and limitations. (This course is offered as PLSI 493 and USP 493. Students may not repeat the course under an alternate prefix.)
USP 512 Urban Politics and Community Power (Units: 4)  
Prerequisite: Upper division standing or consent of instructor.  
Political dynamics in the contemporary metropolitan context; bases and distribution of power in urban and suburban areas. Intergovernmental relations and urban political power.  
(This course is offered as PLSI 512 and USP 512. Students may not repeat the course under an alternate prefix.)

USP 513 Politics, Law, and the Urban Environment (Units: 4)  
Prerequisite: Upper division standing or consent of instructor.  
Law and the legal system as mechanisms for regulating urban development and protecting the environment; intervention in development and land use; environmental decay, conservation of open space, other related resources. Lecture, 3 units; activity, 1 unit.  
(This course is offered as USP 513, GEOG 668, and PLSI 513. Students may not repeat the course under an alternate prefix.)

USP 514 Sustainable Development in Cities (Units: 4)  
Prerequisite: Upper division standing or consent of instructor.  
Analysis of development and sustainable development theory and practice, the role international lending institutions, sustainable planning and management of urban infrastructures, and the role appropriate technologies. Case studies of sustainable development planning and policy in Africa, Latin America, Asia, Europe, Caribbean, and USA.  
Course Attributes:  
- Environmental Sustainability  
- Social Justice

USP 515 Environmental Justice: Race, Poverty, and the Environment (Units: 4)  
Prerequisite: Upper division standing or consent of instructor.  
Examination of environmental justice concepts, research and policies; understanding how toxins and other environmental assaults differentially affect communities and groups in USA and abroad; focus on research, ethnic, class dynamics; environmental justice movements, public policy and planning.  
(This course is offered as USP 515 and GEOG 667. Students may not repeat the course under an alternate prefix.)

Course Attributes:  
- Environmental Sustainability  
- Global Perspectives  
- Social Justice

USP 530 Alternative Urban Futures (Units: 3)  
Prerequisites: Upper division standing; ENG 214 or equivalent.  
Examines future of cities through analysis of current trends and policies; implications for quality of life and natural resources; planning and policy analysis for future of cities and urban populations; focus on problems and solutions.

USP 535 Urban Economics (Units: 3)  
Prerequisite: Upper division standing or consent of instructor.  
Analysis of the economic forces which determine a city’s income, employment, land use pattern, industrial structure, and public sector. Particular attention to housing, central city-suburban relationships, transportation, local labor market, local public finance, and neighborhood economic development.  
(This course is offered as ECON 535 and USP 535. Students may not repeat the course under an alternate prefix.)

USP 555 Urban Anthropology (Units: 3)  
Prerequisites: Upper division standing; one course in cultural anthropology or USP 400.  
Impact of urban environments upon human behavior cross-culturally. Ethnographic fieldwork techniques, the history and theoretical roots of urban anthropology, and case studies from around the world.  
(This course is offered as ANTH 555 and USP 555. Students may not repeat the course under an alternate prefix.)

USP 557 Ethnography of the Inner City (Units: 4)  
Prerequisite: ANTH 555.  
Participant-observation fieldwork techniques; research projects in inner city communities in the Bay Area. Classwork, 3 units; activity, 1 unit.  
(This course is offered as ANTH 557 and USP 557. Students may not repeat the course under an alternate prefix.)

USP 560 Urban Poverty and Policy (Units: 4)  
Prerequisite: ENG 214 or equivalent.  
Nature and causes of urban poverty. Theories of poverty and their policy implications. Role of education, employment and family status; gender and race; metropolitan location: global economic restructuring; anti-poverty policies and proposals; development of policy alternatives. [CSL may be available]  
(This course is offered as USP 560 and PLSI 560. Students may not repeat the course under an alternate prefix.)

Course Attributes:  
- UD-D: Social Sciences  
- Social Justice

USP 565 Social Policy and Family Systems (Units: 4)  
Prerequisite: Upper division standing.  
Background and analytical tools to understand impact of past, current and proposed public policies on families in the U.S.; role of the state; analysis of specific policy areas—i.e., healthcare, income and employment, poverty, taxation, medical rights, education, violence; legal rights of families.

USP 570 Urban Health Policy (Units: 3)  
Prerequisites: Upper division standing, ENG 214 or equivalent.  
(This course is offered as USP 570, LABR 570, and PLSI 570. Students may not repeat the course under an alternate prefix.)
USP 580 Housing Policy and Planning (Units: 3)
Prerequisite: Upper division standing.
Social, economic, and technical aspects of urban housing; market analysis, housing production, tenant/landlord relations, finance, government regulation, subsidies. (This course is offered as USP 580 and PLSI 580. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

USP 603 Public Service Internships (Units: 3)
Prerequisites: Upper division standing; concurrent enrollment in PLSI 604; consent of instructor.
Fieldwork in approved public, private, non-profit, or political organization under supervision of organization staff and faculty coordinator. May be repeated on advisement. [CSL may be available]
(This course is offered as PLSI 603 and USP 603. Students may not repeat the course under an alternate prefix.)

USP 604 Internship Seminar (Unit: 1)
Prerequisites: Upper division standing; concurrent enrollment in PLSI 603.
Analysis of internship experiences. May be repeated on advisement. [CSL may be available]
(This course is offered as PLSI 604 and USP 604. Students may not repeat the course under an alternate prefix.)

USP 651 San Francisco Bay Area Environmental Issues (Units: 4)
Prerequisite: Upper division standing or consent of instructor.
Mission and work of environmental management organizations. Managing our air, water, soil, wildlife, and aesthetic resources. Land use and transportation concepts. Field projects. Classwork, 3 units; laboratory, 1 unit.
(This course is offered as GEOG 651 and USP 651. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-B: Physical Life Science
- Environmental Sustainability

USP 652 Environmental Impact Analysis (Units: 4)
Prerequisite: GEOG 205 or ENVS 224 or consent of instructor.
Cultural and physical environmental interrelationships. Evaluating impact proposals. Reconciling resource potentials with human needs, problems of social development impact, and environmental quality protection. (This course is offered as GEOG 652 and USP 652. Students may not repeat the course under an alternate prefix.)

USP 658 Land-Use Planning (Units: 4)
Prerequisite: ENG 214 or equivalent.
The institutions, practice, and methodology of land-use planning. Relationship of planning to socio-economic objectives within the context of market and political forces. The planning process, locational analysis, zoning, and negotiated development. Classwork, 3 units; laboratory, 1 unit.
(This course is offered as GEOG 658 and USP 658. Students may not repeat the course under an alternate prefix.)

USP 660 The Roles of Nonprofit Organizations in Urban Life (Units: 3)
Prerequisite: Restricted to senior Social Work majors.
Analysis of non-profit organizations in social services: the arts, housing, environmental and community advocacy. The role of the board, laws, consumers and donors, income, volunteers, and decision-making. (Plus-minus letter grade only)
(This course is offered as S W 660, PLSI 660, and USP 660. Students may not repeat the course under an alternate prefix.)

USP 680 Senior Seminar (Units: 4)
Prerequisites: USP 401GW, USP 492, USP 493, USP 480 or USP 658, USP 603, USP 604; or consent of instructor.
Practicum in policy and planning. Projects for clients outside the university. Preparation for professional work or continued study upon graduation. Open to seniors in Urban Studies after completing sufficient USP core requirements. Classwork, 3 units; activity, 1 unit. [CSL may be available]

USP 681 Senior Thesis (Units: 4)
Prerequisites: Restricted to senior Urban Studies and Planning majors and minors; USP 401GW, USP 492, USP 493, USP 480 or USP 658, USP 604, or consent of instructor.
Directed guidance leading to the completion of a senior research project based on intensive individual study of a topic or problem related to urban studies, policy and/or planning. Data gathering, analysis and presentation (oral and written) of original research. (Plus-minus ABC/NC)

USP 685 Projects in the Teaching of Urban Studies (Units: 1-4)
Prerequisites: Consent of instructor and completion of course (or equivalent) in which student will be assisting.
Students serve as instructional aides in order to enrich their knowledge of the subject and the general processes of learning and teaching. Help develop course materials, plan and review course structure and activities, and provide assistance to students in class activities such as writing assignments, research projects, and fieldwork. (Students may earn a maximum of 4 units toward the baccalaureate degree for any course(s) numbered 685 regardless of discipline.)

USP 686 Field Work in Urban Studies (Units: 1-4)
Prerequisite: Upper division standing or consent of instructor.
Supervised field research including preparation of policy papers, developing databases on local issues, and applied policy work. Editorial and production work for annual Urban Studies publications: Urban Action and the Alumni Survey. May be repeated for a total of 8 units.

USP 699 Independent Study (Units: 1-4)
Prerequisite: Consent of instructor.
Supervised individual research project of special interest to develop research capability.
Women and Gender Studies (WGS)

WGS 150 Women and Gender in U.S. History and Society (Units: 3)
Historical development of institutions and ideals and the evolution of economic, political, and social processes in the U.S. since colonization; roles and status of women.
Course Attributes:
- U.S. History
- D2: Social Sciences: U.S. Hist
- Am. Ethnic & Racial Minorities
- Social Justice

WGS 160 Gender, Politics, and Citizenship (Units: 3)
U.S. political ideals, institutions, and processes; implications for gender-based contributions to public life.
Course Attributes:
- U.S. Govt CA State Local Govt
- D3: Social Sciences: US CA Gov
- Am. Ethnic & Racial Minorities

WGS 200 Introduction to Women and Gender Studies (Units: 3)
Introduction to origins, purpose, subject matter, and methods of women and gender studies and the feminist perspectives on a range of social issues affecting women.
Course Attributes:
- E1: Lifelong Learning Develop
- D1: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 220 Introduction to Feminist Disability Studies (Units: 3)
Prerequisites: Upper division standing; any GWAR course.
A history of urban planning, primarily in the U.S. from its roots in the 19th century to its development as a contemporary civic endeavor. Examination of the relationship between planning theory and practice based on classic and current readings.
Course Attributes:
- Social Justice

WGS 280 Introduction to Feminist Science Studies (Units: 3)
Prerequisite: ENG 114 or equivalent.
Introduction to the feminist analysis of science, technology, medicine, and the environment, building scientific and cultural literacy necessary to address issues at the intersection of scientific inquiry and social justice.
Course Attributes:
- Social Justice

WGS 300GW Gender, Race, and Nation - GWAR (Units: 3)
Prerequisites: Restricted to Women and Gender Studies majors and minors; WGS 200, ENG 214 or equivalent with a grade of C- or better.
Intersectional, transnational, transdisciplinary analysis of women and gender. Topics include U.S. women of color feminisms and contemporary social justice movements. (ABC/NC grading only)
Course Attributes:
- Graduation Writing Assessment

WGS 301 Women, Gender, and Community (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Discussion of community as a concept, as well as specific communities that address women's or gender issues. Topics may include imagined communities, scholarly communities, community activism, coalition politics, and other forms of feminist affinity and networking.

WGS 303 Women as Creative Agents (Units: 3)
Prerequisite: ENG 114.
Personal expression and self-definition through creative experience in various media: drawing, painting, photography, poetry, sculpture, and writing. Work of women artists, filmmakers, poets.
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

WGS 304 Gender and Popular Culture (Units: 3)
Prerequisite: ENG 214.
The question of representation; that is, the formation of culture in relation to women and gender. How women and gender are constructed, narrated, and represented in both written and visual cultures.
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 305 Women and Gender Studies Lecture Series (Units: 3)
Prerequisite for WGS 805: WGS 700 or consent of instructor.
Prerequisite for WGS 305: ENG 214 or equivalent.
Lecture series provides a sampling of feminist perspectives on scholarship, research, and activism including presentations, film screenings, and academic lectures on current theories and topics in the field of women and gender studies.
(WGS 805/WGS 305 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 400 Research Methods in Women and Gender Studies (Units: 3)
Prerequisite: ENG 214 or equivalent.
Women and gender: feminist knowledge, review of methodological problems, and the understanding of the importance of power relations in the formation of knowledge.
WGS 420 Native Genders and Feminism (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to Native genders and feminist theories, methods, and activism as developed within the United States and Canada with an overview of the field(s) with a focus on k and emergent scholarship and political issues. (This course is offered as AIS 420 and WGS 420. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

WGS 423 Geographic Perspectives on Gender, Environment, and Development (Units: 3)
Prerequisites: Upper division standing; ENG 214; or consent of instructor.
Explores geographic frameworks linking gender and environment and examines how they have influenced the practice of development. Case studies from US, Latin America, Africa and Asia. Topics include global restructuring, gender-population-environment. (This course is offered as GEOG 423 and WGS 423. Students may not repeat the course under an alternate prefix.)

WGS 440 Native Sexualities and Queer Discourse (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
A comparative, interdisciplinary, socio-historical analysis of Native sexualities and gender constructions from indigenous centered perspectives; examination of the complexity of Native sexualities, gender formations, and queer indigenous identity movements. (This course is offered as AIS 440, SXS 440, and WGS 440. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 445 Gendered Borders: Latinas and Globalization (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Gender and globalization: moving society toward borderless economies with barricaded borders. Latinas struggle for fair wages, self-determination, and healthy families. Women living in U.S. and Latin America adjusting to transnational reality. (This course is offered as LTNS 445 and WGS 445. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 485 Women and Media (Units: 3)
Prerequisite: Upper division standing.
Analytic modes, including feminist, psychoanalytic, and economic criticism, to assess both how women are represented in mass media and the status of women employed in mass media. (This course is offered as BECA 485 and WGS 485. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Social Justice

WGS 505 Gender, Sexuality, and Latino Communities (Units: 3)
Prerequisite: Upper division standing or consent of instructor.
Introduction to the social organization of gender and sexuality in Latino communities; exploration of ways gender and sexuality are given specific cultural meaning among the pan-Latino population. (This course is offered as LTNS 505 and WGS 505. Students may not repeat the course under an alternate prefix.)

WGS 511 Women and Violence (Units: 3)
Prerequisite: ENG 214 or equivalent.
Psychological and physical violence visited upon vulnerable populations, particularly women. Topics include relations between gender, race, class, nation, and violence; research, theories and controversies within feminist anti-violence movements.

WGS 513 Gender, War, and Militarism (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of literature, history, media, and theory, to analyze the gendered political, cultural, and ideological stakes of war and militarism.
Course Attributes:
- UD-C: Arts and/or Humanities
- Global Perspectives
- Social Justice

WGS 514 Women and the Prison Industrial Complex (Units: 3)
Prerequisite: ENG 114 or equivalent.
Incarceration of women and children in prisons, jails, juvenile, and mental institutions. Treatment on the basis of race, class, and ethnicity; reforms or alternatives to incarceration.
Course Attributes:
- UD-C: Social Sciences
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice
WGS 515 Gender, Race, and Reproduction (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of the mutually constitutive ways gender norms and racial knowledge are shaped; focus on the study of the history and politics of reproduction. Various state policies, programs, and laws aimed at controlling reproduction examined.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives

WGS 516 Gender and Visual Culture (Units: 3)
Prerequisite: ENG 214 or equivalent.
Using an interdisciplinary/transnational perspective, this course will examine how gender is understood through visual registers and how visual culture depends upon ideas about gender. Key authors, concepts, and methodologies in the field of visual studies will be covered.

WGS 530 Women and Gender Studies and Social Theory (Units: 3)
Prerequisite: ENG 214 or equivalent.
Influence of social theory on feminist issues and literatures. Topic to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary.

WGS 533 Women, Men, and Cultural Change (Units: 3)
Prerequisite: ENG 214 or equivalent.
Film, literature, small group discussion/dynamics used to help women and men become better co-workers, parents, political allies, friends, lovers. Re-educates women and men of different cultures to new understandings of their interpersonal/social relations.

WGS 534 Gender and the Law (Units: 3)
Prerequisite: ENG 114 or equivalent.
Study of feminist legal thought and analysis of the role law plays in maintaining or transforming gendered societies. Topics include family law, LGBT rights, and reproductive rights, affirmative action and equal protection laws, and law, culture, and international human rights.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Social Justice

WGS 535 History of Women in Latin America (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent; or consent of instructor.
History of the changing roles of women in Latin America from the colonial period to the present. (This course is offered as HIST 535, WGS 535, and LTNS 533. Students may not repeat the course under an alternate prefix.)

WGS 536 Gender, Globalization, and Women's Human Rights (Units: 3)
Prerequisite: ENG 214 or equivalent.
Critical examination of the historical and political rise of women's human rights as a national policy issue. Analyzes the assumptions of how gender and race inform ideas of women's human rights and globalization.
Course Attributes:
• UD-D: Social Sciences
• Global Perspectives
• Social Justice

WGS 541 Women Writers and Social Change (Units: 3)
Prerequisite: ENG 214 or equivalent.
Relationship between women’s literature and women’s participation, as activists and theorists, in movements for progressive social change.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice

WGS 542 Gender and Popular Music (Units: 3)
Prerequisite: ENG 214 or equivalent.
Focuses on how music can restate and resist notions of gender, race, sexuality and nationality. Music styles may include blues, jazz, folk, corridos, country, bhangra, disco, punk, rock, salsa, and hip-hop. Analyzes popular music in the U.S. and internationally.
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives

WGS 546 20th Century American Jewish Women Writers (Units: 3)
Prerequisite: ENG 214 or equivalent.
Exploration through novels, short fiction, and memoir the connections American women forge and the tensions they experience via encounters with self, family, Judaism, American society, and world history. (This course is offered as JS 546, ENG 546, and WGS 546. Students may not repeat the course under an alternate prefix.)
Course Attributes:
• UD-C: Arts and/or Humanities
• Am. Ethnic & Racial Minorities
• Global Perspectives

WGS 548 Literature by U.S. Women of Color (Units: 3)
Prerequisite: ENG 214 or equivalent.
Literature by African American, Latina, Asian American, and Native American women. Literary forms, styles, images, and themes in relation to racism, sexism, homophobia, ableism, and daily life in the U.S.
WGS 551 Queer Literatures and Media (Units: 3)
Prerequisite: ENG 214 or equivalent or consent of instructor.
Queer literature and media productions from a feminist and transnational perspective; intersectional analysis of gender, race, class, sexuality, and citizenship to examine fiction, film, cultural, and historical texts. (This course is offered as WGS 551 and SXS 551. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- E1: Lifelong Learning Develop
- UD-C: Arts and/or Humanities
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 552 Transgender Identities and Communities (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of transgender and transsexual identities in cultural and historical contexts using a transnational feminist approach. Presents a challenge to Western gender binaries and analyzes gender through nation, race, sexuality, and class.
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 554 Gender and Global Migration (Units: 3)
Prerequisite for WGS 754: WGS 700 or consent of instructor.
Prerequisites for WGS 554: ENG 214 or equivalent; WGS 200.
Study of gender, migration, and labor. Causes, conditions, and challenges of displacement.
(WGS 754/WGS 554 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 561 Women, Ethnicity, and Social Movements (Units: 3)
Prerequisite: ENG 214 or equivalent.
Themes include inter-raciality and multi-ethnicity in the history, culture, and contemporary lives of women of color, including African American, Native American, Asian American, and Latina women.
Course Attributes:
- Am. Ethnic & Racial Minorities
- Social Justice

WGS 562 History of African American Women (Units: 3)
Prerequisite: ENG 214 or equivalent.
Experiences of Black women under slavery; in their pioneering roles as industrial, domestic, and agricultural workers; and in their varied political, social, and educational roles from the 19th century to present.
Course Attributes:
- UD-D: Social Sciences
- Am. Ethnic & Racial Minorities
- Social Justice

WGS 563 Gender, Sexuality, and the Politics of Mobility (Units: 3)
Prerequisite: ENG 214 or equivalent.
How do gender and sexuality inform, enable or prevent people’s relationship to different forms of mobility (migration, embodiment, detention) in a transnational world? Is mobility always positive? Course texts may include film, cultural studies, political and social theory, and history.
Course Attributes:
- UD-D: Social Sciences
- Global Perspectives

WGS 564 Women Writers and the Politics of Decolonization (Units: 3)
Prerequisite for WGS 764: WGS 700 or consent of instructor.
Prerequisite for WGS 564: ENG 214 or equivalent.
Literature by women writers which addresses histories of colonialism and/or imperialism. Emphasis on intersections of gendered political, economic, and social transformations.
(WGS 764/WGS 564 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 565 Muslim Feminisms (Units: 3)
Prerequisite: ENG 214 or equivalent.
Examination of differences/similarities in women’s lives in Muslim/Arab world, including diaspora in Europe and North America; minorities in Arab Middle East. Analysis includes issues of gender as relates to nationalism, religion, and culture.
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives

WGS 566 Gender and Modernity in the Muslim and Arab Worlds (Units: 3)
Prerequisite: ENG 214 or equivalent.
Investigates implications of the project of modernity/modernization for gender and sexuality in the Muslim and Arab worlds. By interrogating dichotomies that oppose tradition to modernity, examines the multifaceted ways in which gender identities are produced historically. [Formerly ETHS 566]
(This course is offered as WGS 566 and RRS 566. Students may not repeat the course under an alternate prefix.)
Course Attributes:
- Am. Ethnic & Racial Minorities
- Global Perspectives
- Social Justice

WGS 570 Women, Gender, Policy, and Justice (Units: 3)
Prerequisite for WGS 770: WGS 700 or consent of instructor.
Prerequisite for WGS 570: ENG 214 or equivalent.
Examination of a specific issue in public policy, its role in the formation of gender inequities, and its impact on the position of women in the economy.
(WGS 770/WGS 570 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
WGS 571 Gender, Poverty, and Globalization (Units: 3)
Prerequisite for WGS 771: WGS 700 or consent of instructor.
Prerequisite for WGS 571: ENG 214 or equivalent.
Understanding of globalization and its relation to poverty, work with a community organization concerned with these issues. [CSL may be available]
(WGS 771/WGS 571 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
WGS 578 Women, Globalization, and Ecology (Units: 3)
Prerequisite for WGS 778: WGS 700 or consent of instructor.
Prerequisite for WGS 578: ENG 214 or equivalent.
Ecological issues concerning women and gender from a third world women's perspective: environmental racism and justice, ecology, health, development, and international human rights.
(WGS 778/WGS 578 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
WGS 580 Feminism and the Speculative: Another World is Possible (Units: 3)
Prerequisite: ENG 214 or equivalent.
Draws on critical theory, science fiction, film, art, political action and new media to investigate how imagining and inhabiting "other worlds" such as utopias, dystopias, alternate histories, imagined futures, can inform feminist thought, political activism, and cultural production.
WGS 593 Gender, Health, and the Environment (Units: 3)
Prerequisite: ENG 214 or equivalent.
Emergence of "western medicine" as primary paradigm, and the consequences of socio-political formations to women's health. Emergence of "holistic" treatments, "traditional" medicine from indigenous and pre-colonial perspectives, and oppositional health practices emerging from environmental movements.
Course Attributes:
• UD-D: Social Sciences
• Environmental Sustainability
• Global Perspectives
WGS 595 Anthropology of Women (Units: 3)
Prerequisite: ENG 114 or equivalent.
Ethnographic, physical, anthropological, and pre-historical materials on women. Theories on origins of the family, social structuring of sexuality, and changing sex and gender in modern societies.
(This course is offered as ANTH 590, CST 590, and WGS 595. Students may not repeat the course under an alternate prefix.)
WGS 601 Gender, Tourism, and Neoliberalism (Units: 3)
Prerequisite for WGS 801: Graduate standing or consent of instructor.
Prerequisites for WGS 601: ENG 214 or equivalent, WGS 200, or consent of instructor.
Analysis of how neoliberal service economies, particularly urban tourism, reconfigure and put to work race and gender meanings. Focus on the production of new modes of consumption including racialized tourist sites, cosmopolitan adventures, and gay weddings.
(WGS 801/WGS 601 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
WGS 602 Feminist Cultural Activism (Units: 3)
Prerequisite: ENG 214 or equivalent.
Relationship between cultural production and social change. Focus on cultural activism media through gender, sexuality, and other historical norms to assess feminist implications of their modes of resistance.
(Plus-minus ABC/NC [undergraduate] or plus-minus AB/NC [graduate])
[CSL may be available]
(WGS 802/WGS 602 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
WGS 611 Theories of Female Sexuality (Units: 3)
Prerequisite: ENG 214 or equivalent.
Relationship between female sexuality and its historical, social, and ideological contexts focusing on trends and issues in current feminist thought. Topics include critical race studies, lesbian/gay/bisexual/transgender studies, transnational feminism, reproductive and non-reproductive sexualities.
WGS 612 Queer Theory (Units: 3)
Prerequisites: Women and Gender Studies majors and minors; ENG 214 or equivalent, WGS 200; or consent of instructor.
Examination of the field of queer theory: theoretical approaches to the history of sexuality, politics of normativity, race/sex intersections, links between queer theory and disability studies, transnational contexts, and native/settler/colonial politics. [Formerly WGS 512.]
WGS 621 Feminist Theories (Units: 3)
Prerequisites: ENG 214 or equivalent, WGS 200, or consent of instructor.
Analysis of feminist theories and practices internationally and historically; examination of theories of gender, race, class, sexuality, identity, community, modernity, and nation. Study of methods, histories, and implications of feminist thought in various academic, cultural, and political contexts.
Course Attributes:
• UD-D: Social Sciences
• Am. Ethnic & Racial Minorities
• Global Perspectives
• Social Justice
WGS 681 Genetics, Biotechnology, and the Politics of Difference (Units: 3)
Prerequisites: Upper division standing; ENG 214 or equivalent.
Employs feminist science studies, critical race theory, and indigenous studies to analyze how the life sciences conceptualize, define, and study human differences. Considers how feminist insights into the social effects of genetics and biotechnology can influence scientific practice and discourse.
(This course is offered as WGS 681 and AIS 681. Students may not repeat the course under an alternate prefix.)
WGS 690 Senior Seminar (Units: 3)
Prerequisites: WGS 200, WGS 300GW, ENG 214 or equivalent.
Focuses on enabling students to evaluate their learning progress by creating a portfolio which includes writing a paper analyzing their work. Students collaborate to produce a publication. (Plus-minus letter grade only)
WGS 698 Work Study in Feminist Projects (Units: 1-6)
Prerequisite: Upper division standing or consent of instructor.
Supervised community or university service that relates to the women studies major, individual women studies courses, or the student’s own major. May be repeated for a total of 9 units. [CWL may be available]

WGS 699 Independent Study (Units: 1-6)
Prerequisite: ENG 114 or equivalent.
Special study in some aspect of feminism or women and gender studies, performed under department faculty supervision. Enrollment by petition. May be repeated for a total of 9 units.

WGS 700 Introduction to Graduate Study (Units: 3)
Prerequisite: MA Women and Gender Studies Student.
Origins and current status of women and gender studies as a field of knowledge. Relationships between gender and epistemology; feminist critiques and transformations of research methodologies. Identification of major works and issues in feminist scholarship.

WGS 710 Feminist Social Movements (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Social stratification and the state; political marginalization of women. Equalitarianism in the legacy of women’s participation in society. Colonial transformations and the politics/culture of resistance. Turning points in women’s activism. Impact of race/class inequities.

WGS 712 Queer Theories (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Examination of queer theory from a transnational feminist approach; production of sexuality within western epistemology; politics of sexual deviance and the racialization of sexual identities from socio-economic and cultural perspectives.

WGS 713 Intellectual Genealogies (Units: 3)
Prerequisite: WGS 700 (may be taken concurrently) or consent of instructor.
Specific issues, topics, or theoretical tendencies in current feminist discussion and debate; implications of theory for social practice.

WGS 720 Feminist Pedagogies (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Examines feminist critical education theories and praxis with a transnational lens. Topics may include history of the University and gender tactics of colonialism; intersectional analysis of disability studies; theory/praxis debates; pedagogies of the oppressed; and teaching transgression. (Plus-minus letter grade only)

WGS 747 Feminist Criticisms (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Diverse feminist theoretical and critical approaches in social contexts; canons; female aesthetics; social, linguistic, and psychoanalytic approaches. (This course is offered as WGS 747 and ENG 747. Students may not repeat the course under an alternate prefix.)

WGS 752 Feminism, Race, and the Politics of Difference (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Considers the “difference politics” that emerged out of the 1960s and 1970s Civil Rights and women’s movement activism. Explores how these politics frame understanding of difference and justice; intersectionality, pluralism, multiculturalism, and post-racialism.

WGS 754 Gender and Global Migration (Units: 3)
Prerequisite for WGS 754: WGS 700 or consent of instructor.
Prerequisites for WGS 554: ENG 214 or equivalent; WGS 200.
Study of gender, migration, and labor. Causes, conditions, and challenges of displacement. (WGS 754/WGS 554 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 760 Issues in Women’s Literature and Culture (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Women’s literature and its role and impact on culture. Topic to be specified in Class Schedule. May be repeated for a total of 9 units when topics vary.

WGS 762 Women, Labor, and Power (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Transnational examination of the role of work in women’s lives. Focus on historical, literary, and ethnographic narratives of survival strategies, protest, and labor organizing from nineteenth-century to present.

WGS 764 Women Writers and the Politics of Decolonization (Units: 3)
Prerequisite for WGS 764: WGS 700 or consent of instructor.
Prerequisite for WGS 564: ENG 214 or equivalent.
Literature by women writers which addresses histories of colonialism and/or imperialism. Emphasis on intersections of gendered political, economic, and social transformations. (WGS 764/WGS 564 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 766 Gender and Modernity in the Muslim and Arab Worlds (Units: 3)
Prerequisite: WGS 700 or consent of instructor.
Investigates implications of the project of modernity/modernization for gender and sexuality in the Muslim and Arab worlds. By interrogating dichotomies that oppose tradition to modernity, examines the multifaceted ways in which gender identities are produced historically.

WGS 770 Women, Gender, Policy, and Justice (Units: 3)
Prerequisite for WGS 770: WGS 700 or consent of instructor.
Prerequisite for WGS 570: ENG 214 or equivalent.
Examination of a specific issue in public policy, its role in the formation of gender inequities, and its impact on the position of women in the economy. (WGS 770/WGS 570 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 771 Gender, Poverty, and Globalization (Units: 3)
Prerequisite for WGS 771: WGS 700 or consent of instructor.
Prerequisite for WGS 571: ENG 214 or equivalent.
Understanding of globalization and its relation to poverty, work with a community organization concerned with these issues. [CWL may be available]
(WGS 771/WGS 571 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)
WGS 772 Sexuality, Visual Culture, and the Arts (Units: 3)  
Prerequisite: Graduate standing or consent of instructor.

Examination of the cultural politics of representations of sexuality in visual culture and the arts, with emphasis on how such representations are produced in relationship to race, class, gender, and nation. (Plus-minus letter grade only)  
(This course is offered as SXS 772 and WGS 772, and may not be repeated under the alternate prefix.)

WGS 778 Women, Globalization, and Ecology (Units: 3)  
Prerequisite for WGS 778: WGS 700 or consent of instructor.  
Prerequisite for WGS 578: ENG 214 or equivalent.

Ecological issues concerning women and gender from a third world women's perspective: environmental racism and justice, ecology, health, development, and international human rights. (WGS 778/WGS 578 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 798 Feminist Internship: Gender and the Nonprofit Industrial Complex (Units: 1-4)  
Prerequisite: WGS 700 (may be taken concurrently) or consent of instructor.

Supervised volunteer community service learning; course materials include analysis of gendered politics of volunteer labor, the nonprofit industrial complex, theory/practice binary, local/global contexts, feminist transnational analysis. May be repeated for a total of 4 units. [CSL may be available]

WGS 801 Gender, Tourism, and Neoliberalism (Units: 3)  
Prerequisite for WGS 801: Graduate standing or consent of instructor.  
Prerequisites for WGS 601: ENG 214 or equivalent, WGS 200, or consent of instructor.

Analysis of how neoliberal service economies, particularly urban tourism, reconfigure and put to work race and gender meanings. Focus on the production of new modes of consumption including racialized tourist sites, cosmopolitan adventures, and gay weddings. (WGS 801/WGS 601 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 802 Feminist Cultural Activism (Units: 3)  
Prerequisite: ENG 214 or equivalent.

Relationship between cultural production and social change. Focus on cultural activism media through gender, sexuality, and other historical norms to assess feminist implications of their modes of resistance. (Plus-minus ABC/NC [undergraduate] or plus-minus AB/NC [graduate])  
[CSL may be available]  
(WGS 802/WGS 602 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 805 Women and Gender Studies Lecture Series (Units: 3)  
Prerequisite for WGS 805: WGS 700 or consent of instructor.  
Prerequisite for WGS 305: ENG 214 or equivalent.

Lecture series provides a sampling of feminist perspectives on scholarship, research, and activism including presentations, film screenings, and academic lectures on current theories and topics in the field of women and gender studies. (WGS 805/WGS 305 is a paired course offering. Students who complete the course at one level may not repeat the course at the other level.)

WGS 820 Feminist Research Methods (Units: 3)  
Prerequisites: Graduate standing; WGS 700; or consent of instructor.

Social research and feminism. Analyze research studies, develop skills, and develop their master's projects. (Plus-minus letter grade only)

WGS 894 Creative Work Project (Units: 3)  
Prerequisites: WGS 700; approval of the graduate major advisor, approval of Advancement to Candidacy (ATC) and Fulminating Experience (CE) forms by Graduate Studies.

An original creative work. Projects must be described in a written document that summarizes the project's relation to other work in the area, its rationale, its significance, and its creative methodologies. ATC and Proposal for Fulminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC only)

WGS 895 Field Study Project (Units: 3)  
Prerequisites: WGS 700; approval of the graduate major advisor, and approval of Advancement to Candidacy (ATC) and Fulminating Experience (CE) forms by Graduate Studies.

A field study or applied research project resulting in a completed written work that includes the project's significance, objectives, methodology, and conclusions or recommendations. ATC and Proposal for Fulminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only)

WGS 897 Advanced Feminist Graduate Literatures (Units: 3)  
Prerequisites: WGS 700; consent of Graduate Advisor.

Prepares students to write a feminist literature review on topics related to their Fulminating Experience projects. Reading of a variety of literature reviews and learning the conventions of writing literature reviews. (CR/NC only)

WGS 898 Master's Thesis (Units: 3)  
Prerequisites: WGS 700; approval of Advancement to Candidacy (ATC) and Fulminating Experience (CE) forms by Graduate Studies; consent of graduate major advisor.

Intensive study of a topic or issue within the field of women and gender studies, culminating in a written thesis showing independent thinking, appropriate methodology and organization, clarity of purpose, thorough documentation, and relevant conclusions. Advancement to Candidacy (ATC) and Proposal for Fulminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC only)

WGS 899 Independent Study (Units: 1-4)  
Prerequisite: Consent of graduate major advisor and supervising faculty member.

Study is planned, developed, and completed under the direction of a member of the department faculty. Open only to graduate students who have demonstrated ability to do independent work. Enrollment is by petition. May be repeated for a total of 6 units.
INDEX

A
AB 540 & Undocumented Students ................................................. 172
About the University ........................................................................ 15
Academic Advising for Undergraduate Students .......................... 111
Academic Programs ........................................................................ 141
Academic Standards ........................................................................ 151
Academic Technology ..................................................................... 180
Accounting ..................................................................................... 200
Accounting (ACCT) ....................................................................... 1366
Adjunct Faculty ............................................................................... 1345
Administrative Officers ................................................................... 16
African Studies .............................................................................. 605
Africana Studies (AFRS) ................................................................. 1369
All University (A U) ...................................................................... 1374
All-University Programs ................................................................. 1311
Alternative Learning Opportunities ............................................... 167
Alumni Association ....................................................................... 170
American Ethnic and Racial Minorities ....................................... 95
American Indian Studies ............................................................... 355
American Indian Studies (AIS) ..................................................... 1375
American Language Institute ......................................................... 185
American Studies ......................................................................... 606
American Studies (AMST) ............................................................ 1379
Anthropology .............................................................................. 614
Anthropology (ANTH) ................................................................. 1380
AP - IB - CLEP Standardized External Examinations ................. 65
AP - IB - CLEP Standardized External Examinations ................. 65
Apparel Design & Merchandising (ADM) .................................... 1386
Appeals Process ........................................................................... 156
Arab and Muslim Ethnicities and Diasporas Studies ................... 364
Arabic (ARAB) ............................................................................. 1388
Art .............................................................................................. 624
Art (ART) .................................................................................... 1390
Asian American Studies .............................................................. 365
Asian American Studies (AA S) ................................................... 1397
Astronomy (ASTR) ....................................................................... 1403
Athletics and Sports .................................................................... 168
Athletics (ATHL) ........................................................................ 1405

Availability of Institutional and Financial Assistance Information ...... 162
Average Annual Cost of Education and Sources of Funds per Full-Time Equivalent Student ...................................................... 137
Average Annual Cost of Education and Sources of Funds per Full-Time Equivalent Student ................................................................. 162

B
Baccalaureate Degrees .................................................................. 19
Bachelor of Art in Liberal Studies: Elementary Teaching Preparation Emphasis - ETE Associate Degree for Transfer Roadmap .......... 885
Bachelor of Art in Philosophy: Emphasis in Philosophy and Law - PHIL Associate Degree for Transfer Roadmap ...................................................... 995
Bachelor of Art in Philosophy: Emphasis in Philosophy and Law - SJS Associate Degree for Transfer Roadmap ...................................................... 999
Bachelor of Art s in English: Concentration in Linguistics - ENGL Associate Degree for Transfer Roadmap ........................................... 790
Bachelor of Art s in English: Individual Major Concentration - ENGL Associate Degree for Transfer Roadmap ........................................... 783
Bachelor of Arts in Africana Studies .............................................. 345
Bachelor of Arts in Africana Studies - SJS Associate Degree for Transfer Roadmap ................................................................. 351
Bachelor of Arts in African Studies Roadmap .............................. 349
Bachelor of Arts in American Indian Studies ............................... 355
Bachelor of Arts in American Indian Studies - SJS Associate Degree for Transfer Roadmap ................................................................. 361
Bachelor of Arts in American Indian Studies Roadmap ............... 359
Bachelor of Arts in American Studies ........................................... 606
Bachelor of Arts in American Indian Studies - SJS Associate Degree for Transfer Roadmap ................................................................. 611
Bachelor of Arts in American Studies Roadmap .......................... 609
Bachelor of Arts in Anthropology ................................................ 614
Bachelor of Arts in Anthropology Roadmap ................................. 618
Bachelor of Arts in Art: Art History and Studio Art - ARTS or ARTH Associate Degree for Transfer Roadmap ................................................................. 648
Bachelor of Arts in Art: Concentration in Art Education .............. 625
Bachelor of Arts in Art: Concentration in Art Education - ARTS Associate Degree for Transfer Roadmap ................................................................. 631
Bachelor of Arts in Art: Concentration in Art Education Roadmap ................................................................. 629
Bachelor of Arts in Art: Concentration in Art History .................. 633
Bachelor of Arts in Art: Concentration in Art History - ARTH Associate Degree for Transfer Roadmap ................................................................. 640
Bachelor of Arts in Art: Concentration in Art History and Studio Art .... 642
Bachelor of Arts in Art: Concentration in Art History and Studio Art Roadmap ................................................................. 646
Bachelor of Arts in Art: Concentration in Art History and Studio Art Roadmap ................................................................. 637
Bachelor of Arts in Art: Concentration in Studio Art ........................ 650
Bachelor of Arts in Art: Concentration in Studio Art - ARTS Associate Degree for Transfer Roadmap ................................................................. 656
Bachelor of Arts in Art: Concentration in Studio Art - ARTS Associate Degree for Transfer Roadmap ................................................................. 658
Bachelor of Arts in Art: Concentration in Studio Art Roadmap ........................................ 654
Bachelor of Arts in Asian American Studies ................................................................. 366
Bachelor of Arts in Asian American Studies - SJS Associate Degree for Transfer Roadmap ............................................................... 372
Bachelor of Arts in Asian American Studies Roadmap ................................................. 369
Bachelor of Arts in Biology - BIOL Associate Degree for Transfer Roadmap .......................... 1041
Bachelor of Arts in Broadcast and Electronic Communication Arts ................... 663
Bachelor of Arts in Broadcast and Electronic Communication Arts - FTVE Associate Degree for Transfer Roadmap .................................... 670
Bachelor of Arts in Broadcast and Electronic Communication Arts Roadmap ........................ 668
Bachelor of Arts in Chemistry .............................................................. 1107
Bachelor of Arts in Chemistry - CHEM Associate Degree for Transfer Roadmap ................................................................. 1113
Bachelor of Arts in Chemistry Roadmap ................................................................. 1111
Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood ................................................................. 407
Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood - Associate Degree for Transfer Roadmap ................................................................. 414
Bachelor of Arts in Child and Adolescent Development: Concentration in Early Childhood Roadmap ............................................. 411
Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family ................................................................. 417
Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family - CAD Associate Degree for Transfer Roadmap ................................................................. 424
Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family - ECE Associate Degree for Transfer Roadmap ................................................................. 426
Bachelor of Arts in Child and Adolescent Development: Concentration in School Age Child and Family Roadmap ................................................................. 421
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time ................................................................. 429
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time - Child and Adolescent Development Associate Degree for Transfer Roadmap ................................................................. 434
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time - ECE Associate Degree for Transfer Roadmap ................................................................. 436
Bachelor of Arts in Child and Adolescent Development: Concentration in Youth Work and Out of School Time Roadmap ................................................................. 432
Bachelor of Arts in Chinese: Concentration in Chinese Language .................... 892
Bachelor of Arts in Chinese: Concentration in Chinese Language Roadmap ................................................................. 896
Bachelor of Arts in Chinese: Concentration in Chinese Literature & Linguistics ................................................................. 898
Bachelor of Arts in Chinese: Concentration in Chinese Literature & Linguistics Roadmap ................................................................. 901
Bachelor of Arts in Chinese: Concentration in Flagship Chinese Language ................................................................. 903
Bachelor of Arts in Chinese: Concentration in Flagship Chinese Language Roadmap .................................................................................. 906
Bachelor of Arts in Cinema ............................................................................. 675
Bachelor of Arts in Cinema - FTVE Associate Degree for Transfer Roadmap ................................................................. 695
Bachelor of Arts in Cinema Roadmap ................................................................. 680
Bachelor of Arts in Cinema: Animation Roadmap ................................................................. 683
Bachelor of Arts in Cinema: Documentary Roadmap ................................................................. 685
Bachelor of Arts in Cinema: Fiction Filmmaking Roadmap ................................................................. 687
Bachelor of Arts in Cinema: Media and Culture Roadmap ................................................................. 690
Bachelor of Arts in Cinema: Screenwriting Roadmap ................................................................. 693
Bachelor of Arts in Classics ........................................................................... 701
Bachelor of Arts in Classics Roadmap ................................................................. 704
Bachelor of Arts in Communication Studies ................................................................. 708
Bachelor of Arts in Communication Studies - COMM Associate Degree for Transfer Roadmap ................................................................. 715
Bachelor of Arts in Communication Studies Roadmap ................................................................. 712
Bachelor of Arts in Communicative Disorders ................................................................. 321
Bachelor of Arts in Comparative and World Literature ................................................................. 719
Bachelor of Arts in Comparative and World Literature - ENGL or SPAN Associate Degree for Transfer Roadmap ................................................................. 725
Bachelor of Arts in Comparative and World Literature Roadmap ................................................................. 723
Bachelor of Arts in Criminal Justice Studies ................................................................. 474
Bachelor of Arts in Criminal Justice Studies - AJ Associate Degree for Transfer Roadmap ................................................................. 482
Bachelor of Arts in Criminal Justice Studies - SJS Associate Degree for Transfer Roadmap ................................................................. 485
Bachelor of Arts in Criminal Justice Studies - SOC Associate Degree for Transfer Roadmap ................................................................. 488
Bachelor of Arts in Criminal Justice Studies Roadmap ................................................................. 479
Bachelor of Arts in Dance ............................................................................. 750
Bachelor of Arts in Dance Roadmap ................................................................. 753
Bachelor of Arts in Drama ............................................................................. 1013
Bachelor of Arts in Drama - THA Associate Degree for Transfer Roadmap ................................................................. 1018
Bachelor of Arts in Drama Roadmap ................................................................. 1016
Bachelor of Arts in Earth Sciences ............................................................................. 1142
Bachelor of Arts in Earth Sciences - GEOL Associate Degree for Transfer Roadmap ................................................................. 1147
Bachelor of Arts in Earth Sciences Roadmap ................................................................. 1145
Bachelor of Arts in Economics ............................................................................. 228
Bachelor of Arts in Economics - ECON Associate Degree for Transfer Roadmap ................................................................. 233
Bachelor of Arts in Economics Roadmap ................................................................. 231
Bachelor of Arts in English: Concentration in Creative Writing ................................................................. 731
Bachelor of Arts in English: Concentration in Creative Writing - ENGL Associate Degree for Transfer Roadmap ......................................................... 742
Bachelor of Arts in English: Concentration in Creative Writing Roadmap 736
Bachelor of Arts in English: Concentration in English EducationAçã¬â€“%Roadmap ............................................................... 771
Bachelor of Arts in English: Concentration in Individual Major ............ 778
Bachelor of Arts in English: Concentration in Individual Major Roadmap 781
Bachelor of Arts in English: Concentration in Linguistics ................... 785
Bachelor of Arts in English: Concentration in Linguistics Roadmap .... 788
Bachelor of Arts in English: Concentration in Literature .................. 792
Bachelor of Arts in English: Concentration in Literature - ENGL Associate Degree for Transfer Roadmap ......................................................... 797
Bachelor of Arts in English: Concentration in Literature Roadmap ..... 795
Bachelor of Arts in Environmental Studies .................................. 492
Bachelor of Arts in Environmental Studies Roadmap ..................... 497
Bachelor of Arts in Family and Consumer Sciences ....................... 438
Bachelor of Arts in Family and Consumer Sciences - Family Studies Roadmap ................................................................. 442
Bachelor of Arts in Family and Consumer Sciences - Nutrition/Foodservice Systems Management Roadmap ........................................ 444
Bachelor of Arts in French .......................................................... 910
Bachelor of Arts in French Roadmap ............................................. 913
Bachelor of Arts in General Biology ............................................. 1034
Bachelor of Arts in General Biology Roadmap ............................ 1038
Bachelor of Arts in Geography .................................................... 1199
Bachelor of Arts in Geography - GEOG Associate Degree for Transfer Roadmap ............................................................. 1207
Bachelor of Arts in Geography Roadmap ..................................... 1203
Bachelor of Arts in German ....................................................... 917
Bachelor of Arts in German Roadmap ........................................ 920
Bachelor of Arts in History ......................................................... 818
Bachelor of Arts in History - HIST Associate Degree for Transfer Roadmap ............................................................. 823
Bachelor of Arts in History Roadmap ........................................... 821
Bachelor of Arts in History: Honors Concentration ....................... 825
Bachelor of Arts in History: Honors Concentration - HIST Associate Degree for Transfer Roadmap ......................................................... 830
Bachelor of Arts in History: Honors Concentration Roadmap .......... 828
Bachelor of Arts in Humanities .................................................. 834
Bachelor of Arts in Humanities - ARTH Associate Degree for Transfer Roadmap ................................................................. 841
Bachelor of Arts in Humanities Roadmap ................................... 838
Bachelor of Arts in International Relations ................................ 845
Bachelor of Arts in International Relations - GLST Associate Degree for Transfer Roadmap ............................................................. 850
Bachelor of Arts in International Relations Roadmap .................... 848
Bachelor of Arts in Italian ......................................................... 923
Bachelor of Arts in Italian Roadmap .......................................... 926
Bachelor of Arts in Japanese ....................................................... 929
Bachelor of Arts in Japanese Roadmap ...................................... 932
Bachelor of Arts in Journalism: Concentration in Photojournalism .... 863
Bachelor of Arts in Journalism: Concentration in Photojournalism Roadmap ................................................................. 866
Bachelor of Arts in Journalism: Concentration in Print and Online Journalism ................................................................. 868
Bachelor of Arts in Journalism: Concentration in Print and Online Journalism Roadmap ................................................................. 871
Bachelor of Arts in Labor and Employment Studies ....................... 267
Bachelor of Arts in Labor and Employment Studies Roadmap ....... 270
Bachelor of Arts in Latin/Latino Studies .................................... 380
Bachelor of Arts in Latin/Latino Studies - SJS Associate Degree for Transfer Roadmap ................................................................. 387
Bachelor of Arts in Latin/Latino Studies - SPAN Associate Degree for Transfer Roadmap ................................................................. 389
Bachelor of Arts in Latin/Latino Studies Roadmap ....................... 384
Bachelor of Arts in Liberal Studies ............................................. 876
Bachelor of Arts in Liberal Studies Roadmap ............................... 881
Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study ................................................................. 1220
Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study - MATH Associate Degree for Transfer Roadmap .... 1225
Bachelor of Arts in Mathematics: Concentration in Mathematics for Advanced Study Roadmap ................................................................. 1223
Bachelor of Arts in Mathematics: Concentration in Mathematics for Liberal Arts ................................................................. 1227
Bachelor of Arts in Mathematics: Concentration in Mathematics for Liberal Arts - MATH Associate Degree for Transfer Roadmap ........ 1232
Bachelor of Arts in Mathematics: Concentration in Mathematics for Liberal Arts Roadmap ................................................................. 1230
Bachelor of Arts in Mathematics: Concentration in Teaching .......... 1234
Bachelor of Arts in Mathematics: Concentration in Teaching Roadmap ................................................................. 1237
Bachelor of Arts in Mathematics: Concentration in Teaching Roadmap ................................................................. 1237
Bachelor of Arts in Modern Jewish Studies .................................. 853
Bachelor of Arts in Modern Jewish Studies - HIST or POLS Associate Degree for Transfer Roadmap ................................................................. 859
Bachelor of Arts in Modern Jewish Studies Roadmap ................... 857
Bachelor of Arts in Music ......................................................... 950
Bachelor of Arts in Music Roadmap .......................................... 954
Bachelor of Arts in Philosophy .................................................. 971
Index

Bachelor of Arts in Philosophy - PHIL Associate Degree for Transfer Roadmap ....................................... 978
Bachelor of Arts in Philosophy and Religion ......................................... 980
Bachelor of Arts in Philosophy and Religion - PHIL Associate Degree for Transfer Roadmap ..................... 986
Bachelor of Arts in Philosophy and Religion Roadmap ......................... 984
Bachelor of Arts in Philosophy Roadmap ........................................... 975
Bachelor of Arts in Philosophy: Emphasis in Philosophy and Law ....... 988
Bachelor of Arts in Philosophy: Emphasis in Philosophy and Law Roadmap ............................................... 992
Bachelor of Arts in Physics ............................................................... 1257
Bachelor of Arts in Physics - PHYS Associate Degree for Transfer Roadmap ............................................. 1262
Bachelor of Arts in Physics Roadmap ............................................... 1260
Bachelor of Arts in Physics: Concentration in Astronomy ................. 1264
Bachelor of Arts in Physics: Concentration in Astronomy - PHYS Associate Degree for Transfer Roadmap ........ 1269
Bachelor of Arts in Physics: Concentration in Astronomy Roadmap ... 1267
Bachelor of Arts in Political Science .................................................. 1001
Bachelor of Arts in Political Science - POLS Associate Degree for Transfer Roadmap ................................ 1007
Bachelor of Arts in Political Science Roadmap ................................. 1005
Bachelor of Arts in Psychology ....................................................... 1296
Bachelor of Arts in Psychology - PSY Associate Degree for Transfer Roadmap ........................................... 1304
Bachelor of Arts in Psychology Roadmap ........................................ 1300
Bachelor of Arts in Social Work ....................................................... 581
Bachelor of Arts in Social Work Roadmap ....................................... 585
Bachelor of Arts in Sociology .......................................................... 590
Bachelor of Arts in Sociology - SOC Associate Degree for Transfer Roadmap ............................................ 597
Bachelor of Arts in Sociology Roadmap ........................................... 594
Bachelor of Arts in Spanish ............................................................. 938
Bachelor of Arts in Spanish - SPAN Associate Degree for Transfer Roadmap .............................................. 943
Bachelor of Arts in Spanish Roadmap ................................................ 941
Bachelor of Arts in Technical and Professional Writing ................... 799
Bachelor of Arts in Technical and Professional Writing Roadmap ....... 802
Bachelor of Arts in Urban Studies and Planning ................................ 599
Bachelor of Arts in Urban Studies and Planning Roadmap .................. 602
Bachelor of Arts in Women and Gender Studies ................................ 1023
Bachelor of Arts in Women and Gender Studies - SJS Associate Degree for Transfer Roadmap ................... 1029
Bachelor of Arts in Women and Gender Studies Roadmap ............... 1027
Bachelor of Music ........................................................................... 957
Bachelor of Music Roadmap ............................................................ 962
Bachelor of Science for RNs ............................................................ 545
Bachelor of Science in Apparel Design and Merchandising ............ 446
Bachelor of Science in Apparel Design and Merchandising: Apparel Design Emphasis Roadmap ................. 449
Bachelor of Science in Apparel Design and Merchandising: Fashion Merchandising Emphasis Roadmap .......... 451
Bachelor of Science in Applied Mathematics .................................. 1241
Bachelor of Science in Applied Mathematics - MATH Associate Degree for Transfer Roadmap .................... 1246
Bachelor of Science in Applied Mathematics Roadmap ................. 1244
Bachelor of Science in Biochemistry ................................................. 1120
Bachelor of Science in Biochemistry - CHEM Associate Degree for Transfer Roadmap .................................. 1125
Bachelor of Science in Biochemistry Roadmap ......................... 1123
Bachelor of Science in Biology: Concentration in Botany ............... 1043
Bachelor of Science in Biology: Concentration in Botany - BIOL Associate Degree for Transfer Roadmap ....... 1048
Bachelor of Science in Biology: Concentration in Botany Roadmap ... 1046
Bachelor of Science in Biology: Concentration in Cell and Molecular Biology ................................................ 1050
Bachelor of Science in Biology: Concentration in Cell and Molecular Biology - BIOL Associate Degree for Transfer Roadmap ........................................... 1056
Bachelor of Science in Biology: Concentration in Cell and Molecular Biology Roadmap ....................... 1054
Bachelor of Science in Biology: Concentration in Ecology ............... 1058
Bachelor of Science in Biology: Concentration in Ecology - BIOL Associate Degree for Transfer Roadmap ........ 1064
Bachelor of Science in Biology: Concentration in Ecology Roadmap . 1062
Bachelor of Science in Biology: Concentration in Marine Biology and Limnology ......................................... 1066
Bachelor of Science in Biology: Concentration in Marine Biology and Limnology - BIOL Associate Degree for Transfer Roadmap ........................................... 1072
Bachelor of Science in Biology: Concentration in Marine Biology and Limnology Roadmap ....................... 1070
Bachelor of Science in Biology: Concentration in Microbiology ........ 1074
Bachelor of Science in Biology: Concentration in Microbiology - BIOL Associate Degree for Transfer Roadmap ........................................... 1080
Bachelor of Science in Biology: Concentration in Microbiology Roadmap ........................................... 1078
Bachelor of Science in Biology: Concentration in Physiology .......... 1082
Bachelor of Science in Biology: Concentration in Physiology - BIOL Associate Degree for Transfer Roadmap .......... 1089
Bachelor of Science in Biology: Concentration in Physiology Roadmap ........................................... 1086
Bachelor of Science in Biology: Concentration in Zoology ............... 1091
Bachelor of Science in Biology: Concentration in Zoology - BIOL Associate Degree for Transfer Roadmap .......... 1097
Bachelor of Science in Biology: Concentration in Zoology Roadmap ... 1095
Bachelor of Science in Business Administration: Concentration in Accounting ............................................. 200
Bachelor of Science in Business Administration: Concentration in Accounting Roadmap ............................................... 204
Bachelor of Science in Business Administration: Concentration in Decision Sciences ......................................................... 222
Bachelor of Science in Business Administration: Concentration in Decision Sciences Roadmap ........................................... 225
Bachelor of Science in Business Administration: Concentration in Finance ............................................................................. 237
Bachelor of Science in Business Administration: Concentration in Finance Roadmap .......................................................... 240
Bachelor of Science in Business Administration: Concentration in Finance with Certificate in Commercial Real Estate .............. 242
Bachelor of Science in Business Administration: Concentration in Finance with Certificate in Commercial Real Estate Roadmap ...... 245
Bachelor of Science in Business Administration: Concentration in General Business .......................................................... 209
Bachelor of Science in Business Administration: Concentration in General Business - Business Administration Associate Degree for Transfer with 12 Lower Division Units Roadmap ........................................... 217
Bachelor of Science in Business Administration: Concentration in General Business - Business Administration Associate Degree for Transfer with 21 Lower Division Units Roadmap ........................................ 219
Bachelor of Science in Business Administration: Concentration in General Business Roadmap .............................................. 213
Bachelor of Science in Business Administration: Concentration in Information Systems ...................................................... 254
Bachelor of Science in Business Administration: Concentration in Information Systems Roadmap ........................................... 257
Bachelor of Science in Business Administration: Concentration in International Business .................................................. 260
Bachelor of Science in Business Administration: Concentration in International Business Roadmap ......................................... 263
Bachelor of Science in Business Administration: Concentration in Management ................................................................. 273
Bachelor of Science in Business Administration: Concentration in Management Roadmap .................................................... 276
Bachelor of Science in Business Administration: Concentration in Marketing ........................................................................... 279
Bachelor of Science in Business Administration: Concentration in Marketing Roadmap .......................................................... 282
Bachelor of Science in Chemistry .............................................................................................................................................. 1115
Bachelor of Science in Chemistry Roadmap ............................................................................................................................ 1118
Bachelor of Science in Civil Engineering ..................................................................................................................................... 1167
Bachelor of Science in Civil Engineering Roadmap ...................................................................................................................... 1171
Bachelor of Science in Communicative Disorders Roadmap ...................................................................................................... 324
Bachelor of Science in Computer Engineering .......................................................................................................................... 1174
Bachelor of Science in Computer Engineering Roadmap ............................................................................................................... 1177
Bachelor of Science in Computer Science ................................................................................................................................... 1130
Bachelor of Science in Computer Science - COMP Associate Degree for Transfer Roadmap ..................................................... 1136
Bachelor of Science in Computer Science Roadmap ..................................................................................................................... 1134
Bachelor of Science in Dietetics .................................................................................................................................................... 453
Bachelor of Science in Dietetics Roadmap ................................................................................................................................... 456
Bachelor of Science in Earth Sciences .......................................................................................................................................... 1149
Bachelor of Science in Earth Sciences: Geology Emphasis - GEOL Associate Degree for Transfer Roadmap .................................. 1158
Bachelor of Science in Earth Sciences: Geology Emphasis Roadmap ......................................................................................... 1152
Bachelor of Science in Earth Sciences: Hydrology Emphasis - GEOL Associate Degree for Transfer Roadmap .......................... 1160
Bachelor of Science in Earth Sciences: Hydrology Emphasis Roadmap ..................................................................................... 1154
Bachelor of Science in Earth Sciences: Ocean, Weather & Climate Emphasis Roadmap ............................................................... 1156
Bachelor of Science in Earth Sciences: Ocean, Weather and Climate Emphasis - GEOL Associate Degree for Transfer Roadmap ....... 1162
Bachelor of Science in Electrical Engineering ............................................................................................................................. 1180
Bachelor of Science in Electrical Engineering Roadmap ........................................................................................................... 1184
Bachelor of Science in Environmental Science ........................................................................................................................ 1209
Bachelor of Science in Environmental Science Roadmap ........................................................................................................... 1212
Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation .................. 500
Bachelor of Science in Environmental Studies: Concentration in Natural Resource Management and Conservation Roadmap .... 503
Bachelor of Science in Health Education ................................................................................................................................. 510
Bachelor of Science in Health Education - PHS Associate Degree for Transfer Roadmap ............................................................ 519
Bachelor of Science in Health Education Roadmap .................................................................................................................... 515
Bachelor of Science in Hospitality and Tourism Management .................................................................................................. 248
Bachelor of Science in Hospitality and Tourism Management Roadmap ..................................................................................... 251
Bachelor of Science in Industrial Design: Concentration in Product Design and Development ...................................................... 758
Bachelor of Science in Industrial Design: Concentration in Product Design and Development Roadmap ............................................. 761
Bachelor of Science in Interior Design ......................................................................................................................................... 458
Bachelor of Science in Interior Design Roadmap .......................................................................................................................... 461
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences ................................................................... 527
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences - KIN Associate Degree for Transfer Roadmap .... 534
Bachelor of Science in Kinesiology: Concentration in Exercise and Movement Sciences Roadmap .................................................... 531
Bachelor of Science in Kinesiology: Concentration in Physical Education ........................................................................................ 536
Bachelor of Science in Kinesiology: Concentration in Physical Education Roadmap ........................................................................ 540
Bachelor of Science in Mechanical Engineering ........................................................................................................................... 1187
Bachelor of Science in Mechanical Engineering Roadmap .......................................................................................................... 1187
Bachelor of Science in Nursing (Prelicensure) ........................................................................................................................... 548
Bachelor of Science in Physics ..................................................................................................................................................... 1271
Bachelor of Science in Physics · PHYS Associate Degree for Transfer Roadmap ................................................................. 1276
Bachelor of Science in Physics Roadmap ........................................ 1274
Bachelor of Science in Physics: Concentration in Astrophysics ........... 1278
Bachelor of Science in Physics: Concentration in Astrophysics · PHYS Associate Degree for Transfer Roadmap ..................... 1283
Bachelor of Science in Physics: Concentration in Astrophysics Roadmap ................................................................. 1281
Bachelor of Science in Physics: Concentration in Physics for Teaching 1285
Bachelor of Science in Physics: Concentration in Physics for Teaching · PHYS Associate Degree for Transfer Roadmap .............. 1290
Bachelor of Science in Physics: Concentration in Physics for Teaching Roadmap .......................................................... 1288
Bachelor of Science in Recreation, Parks, and Tourism Administration ... 568
Bachelor of Science in Recreation, Parks, and Tourism Administration Roadmap ............................................................... 571
Bachelor of Science in Statistics .................................................. 1248
Bachelor of Science in Statistics · MATH Associate Degree for Transfer (ADT) Roadmap ..................................................... 1253
Bachelor of Science in Statistics Roadmap ......................................... 1251
Bachelor of Science in Visual Communication Design ................. 763
Bachelor of Science in Visual Communication Design Roadmap ......... 765
Belonging to SF State .................................................................. 170
Biology ....................................................................................... 1033
Biology (BIOL) ........................................................................ 1406
Broadcast & Elect Comm Arts (BECA) ............................................. 1418
Broadcast and Electronic Communication Arts .................................. 662
Business Administration .............................................................. 199
Business (BUS) ........................................................................ 1425
Business Certificate in Ethics & Compliance .................................... 291
Business Certificates .................................................................. 291
Business Graduate Programs ....................................................... 287
C
California State University ......................................................... 29
California State University Campuses .......................................... 30
California Studies ....................................................................... 674
Campus Recreation ..................................................................... 178
Campus Safety and Security ....................................................... 163
Career Placement: Data On Former Students ................................. 162
Career Services ......................................................................... 173
Center for Integration and Improvement of Journalism .................... 186
Center for Modern Greek Studies ................................................. 187
Centers and Institutes in the College of Business ......................... 186
Certificate in Accounting ............................................................. 292
Certificate in Augmentative and Alternative Communication .......... 326
Certificate in Biotechnology ......................................................... 1099
Certificate in Commercial Real Estate for Finance Majors ................ 293
Certificate in Counseling Deaf Persons ....................................... 468
Certificate in Counseling Deafened and Hard of Hearing Persons ...... 468
Certificate in Dietetics .................................................................. 463
Certificate in Ethnic Studies ......................................................... 376
Certificate in Genetic Engineering ................................................. 1099
Certificate in Holistic Health Studies ............................................ 521
Certificate in Immigrant Literacies .............................................. 804
Certificate in Inclusive Early Childhood Practices ......................... 326
Certificate in Information Technology Auditing ......................... 293
Certificate in International Business .......................................... 293
Certificate in Rehabilitation Counseling ...................................... 468
Certificate in Teaching Post-Secondary Reading ......................... 804
Certificate in Technical and Professional Writing ......................... 805
Certificate in the Autism Spectrum ............................................. 327
Certificate in the Study of Public Accountancy ........................... 294
Certificate in the Teaching of Composition .................................. 805
Certificate in Training Systems Development ............................. 298
Certificate in Weather Study ...................................................... 1164
Certificate in Youth and Human Services Nonprofit Administration ... 573
Certificate Information .............................................................. 25
Certificates ............................................................................... 26
Cesar Chavez Student Center ......................................................... 170
Chemistry and Biochemistry ....................................................... 1106
Chemistry (CHEM) ................................................................. 1428
Child & Adolescent Development (CAD) ..................................... 1433
Child and Adolescent Development ............................................ 406
Chinese (CHIN) ....................................................................... 1436
Cinema ....................................................................................... 675
Cinema (CINE) ......................................................................... 1440
Class Schedule ......................................................................... 174
Classical Archaeology (CLAR) ..................................................... 1450
Classics ...................................................................................... 701
Classics (CLAS) ....................................................................... 1452
Clinical Laboratory Science (CLS) .............................................. 1454
College of Business ................................................................... 33
College of Ethnic Studies ......................................................... 39
College of Extended Learning .................................................. 41
College of Health and Social Sciences ....................................... 44
College of Liberal & Creative Arts ............................................ 46
College of Science and Engineering .......................................... 50

1805
Colleges .................................................................33
Communication Studies ............................................707
Communication Studies (COMM) .............................1455
Communicative Disorders (C D) .................................1462
Community Service Learning ....................................174
Comparative and World Literature ..............................719
Comparative World Literature (CWL) ..........................1465
Complementary Studies ............................................67
Complementary Studies/Dietetics ...............................438
Cooperative Education ............................................1140
Cooperative Education Program .................................167
Counseling ...........................................................466
Counseling and Psychological Services .......................174
Counseling (COUN) ................................................1478
Course Descriptions ..............................................1364
Creative Writing .....................................................731
Creative Writing (C W) .............................................1483
Credentials ..........................................................28
Credit By Eval For Exprt Learn (CEEL) .........................1487
Credit by Evaluation for Experiential Learning (CEEL) ....167
Criminal Justice Studies .........................................474
Criminal Justice Studies (C J) ....................................1488
Critical Social Thought ............................................747
Critical Social Thought (CST) ....................................1491
Cross Registration Program: University of California, Berkeley 188
CSU Intrasystem and Intersystem Enrollment Programs ....189

D
Dance .......................................................................749
Dance (DANC) ......................................................1492
Decision Sciences ....................................................222
Decision Sciences (DS) ............................................1495
Degrees Offered ......................................................19
Departmental Internship Programs .................................168
Design and Industry ...............................................757
Design (DES) ........................................................1497
Determination of Residency for Nonresident Tuition Purposes 162
Determination of Residency for Tuition Purposes ...............136
Dietetics And Food Management (DFM) .......................1502

Digital Animation ....................................................394
Digital Media Production .........................................395
Disability Resource Center ..........................................175
Doctor of Philosophy in Education: Concentration in Special Education 327
Doctor of Physical Therapy ......................................558

E
Early Start English (ESE) ...........................................1504
Early Start Math (ESM) ............................................1505
Earth & Climate Sciences ..........................................1141
Earth Sciences (ERTH) ............................................1506
Economics ............................................................228
Economics (ECON) ................................................1515
Education Degrees, Certificates, and Teaching and Educational Specialist Credentials .......296
Education Doctoral Program .......................................306
Education (EDUC) ................................................1519
Education Minor Program ........................................309
Education Specialist Added Authorizations .....................340
Education Specialist Credential Programs .......................337
Educational Administration (EDAD) ..........................1522
Educational Leadership (EDDL) .................................1524
Educational Opportunity Program ................................177
Educational Outreach Programs and Services ................177
Elementary Education ............................................311
Elementary Education (E ED) ...................................1526
Eligibility Index Table for California High School Graduates or Residents of California ..........61
Eligibility Index Table for Nonresidents or Graduates of California High Schools Outside of California ............63
Emeritus/Emerita Faculty ........................................1347
Engineering ........................................................1166
Engineering (ENGR) .............................................1534
English ..................................................................769
English (ENG) ......................................................1543
Environmental Studies ..........................................492
Environmental Studies (ENVS) .................................1556
Environmental Sustainability ....................................98
Equity, Leadership Studies, and Instructional Technologies (ELSIT) .....298
Ethnic Studies .......................................................376
Ethnic Studies (ETHS) .............................................1558
European Studies ................................................813

F
Faculty ....................................................................1314
Faculty ....................................................................1314
<table>
<thead>
<tr>
<th>Index</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Statement Of Course Requirements</td>
<td>160</td>
</tr>
<tr>
<td>Family Nurse Practitioner Certificate</td>
<td>551</td>
</tr>
<tr>
<td>Federal Military Selective Service</td>
<td>166</td>
</tr>
<tr>
<td>Fee Waivers and Exemptions</td>
<td>135</td>
</tr>
<tr>
<td>Fees and Debts Owed to the Institution</td>
<td>135</td>
</tr>
<tr>
<td>Fees and Expenses</td>
<td>132</td>
</tr>
<tr>
<td>Fees and Financial Aid</td>
<td>132</td>
</tr>
<tr>
<td>Film and Media Studies</td>
<td>396</td>
</tr>
<tr>
<td>Finance</td>
<td>237</td>
</tr>
<tr>
<td>Finance (FIN)</td>
<td>1560</td>
</tr>
<tr>
<td>Financial Aid Deadlines</td>
<td>140</td>
</tr>
<tr>
<td>Fitness and Wellness Opportunities</td>
<td>178</td>
</tr>
<tr>
<td>French (FR)</td>
<td>1562</td>
</tr>
<tr>
<td>G</td>
<td></td>
</tr>
<tr>
<td>General Education</td>
<td>82</td>
</tr>
<tr>
<td>Geography &amp; Environment</td>
<td>1198</td>
</tr>
<tr>
<td>Geography and Environment (GEOG)</td>
<td>1565</td>
</tr>
<tr>
<td>German (GER)</td>
<td>1572</td>
</tr>
<tr>
<td>Gerontology</td>
<td>506</td>
</tr>
<tr>
<td>Gerontology (GRN)</td>
<td>1575</td>
</tr>
<tr>
<td>Global Peace, Human Rights, and Justice Studies</td>
<td>816</td>
</tr>
<tr>
<td>Global Peace Studies (GPS)</td>
<td>1577</td>
</tr>
<tr>
<td>Global Perspectives</td>
<td>100</td>
</tr>
<tr>
<td>Grading Policy and Systems</td>
<td>148</td>
</tr>
<tr>
<td>Graduate Academic Policies and Procedures</td>
<td>120</td>
</tr>
<tr>
<td>Graduate Admissions and Graduate Studies</td>
<td>115</td>
</tr>
<tr>
<td>Graduate Certificate in Clinical Laboratory Science</td>
<td>561</td>
</tr>
<tr>
<td>Graduate College of Education</td>
<td>36</td>
</tr>
<tr>
<td>Graduate Education</td>
<td>115</td>
</tr>
<tr>
<td>Graduate Student Registration</td>
<td>128</td>
</tr>
<tr>
<td>Graduation and Commencement</td>
<td>154</td>
</tr>
<tr>
<td>Greek (GRE)</td>
<td>1578</td>
</tr>
<tr>
<td>Guardian Scholars Program</td>
<td>177</td>
</tr>
<tr>
<td>H</td>
<td></td>
</tr>
<tr>
<td>Health and Social Sciences (HSS)</td>
<td>1585</td>
</tr>
<tr>
<td>Health Education</td>
<td>509</td>
</tr>
<tr>
<td>Health Education (H ED)</td>
<td>1580</td>
</tr>
<tr>
<td>Hebrew (HEBR)</td>
<td>1586</td>
</tr>
<tr>
<td>History</td>
<td>818</td>
</tr>
<tr>
<td>History (HIST)</td>
<td>1587</td>
</tr>
<tr>
<td>Holistic Health (HH)</td>
<td>1599</td>
</tr>
<tr>
<td>Hospitality &amp; Tourism Mgmt (HTM)</td>
<td>1602</td>
</tr>
<tr>
<td>Hospitality and Tourism Management</td>
<td>248</td>
</tr>
<tr>
<td>Housing</td>
<td>179</td>
</tr>
<tr>
<td>Humanities</td>
<td>834</td>
</tr>
<tr>
<td>Humanities (HUM)</td>
<td>1605</td>
</tr>
<tr>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Immigration Requirements For Licensure</td>
<td>162</td>
</tr>
<tr>
<td>Information Resources: Library, Academic Technology and Information Technology</td>
<td>179</td>
</tr>
<tr>
<td>Information Systems</td>
<td>254</td>
</tr>
<tr>
<td>Information Systems (ISYS)</td>
<td>1611</td>
</tr>
<tr>
<td>Information Technology Services</td>
<td>180</td>
</tr>
<tr>
<td>Instructional Technologies (ITEC)</td>
<td>1613</td>
</tr>
<tr>
<td>Intercollegiate Athletics</td>
<td>168</td>
</tr>
<tr>
<td>Interdisciplinary Studies Educ (ISED)</td>
<td>1616</td>
</tr>
<tr>
<td>Interdisciplinary Studies (Graduate)</td>
<td>1311</td>
</tr>
<tr>
<td>Interior Design (ID)</td>
<td>1618</td>
</tr>
<tr>
<td>International Business</td>
<td>260</td>
</tr>
<tr>
<td>International Business (IBUS)</td>
<td>1619</td>
</tr>
<tr>
<td>International Relations</td>
<td>845</td>
</tr>
<tr>
<td>International Relations (IR)</td>
<td>1622</td>
</tr>
<tr>
<td>International Student Admission Requirements</td>
<td>58</td>
</tr>
<tr>
<td>Intramural/Recreational Sports Program</td>
<td>168</td>
</tr>
<tr>
<td>Italian (ITAL)</td>
<td>1629</td>
</tr>
<tr>
<td>J</td>
<td></td>
</tr>
<tr>
<td>Japanese (JAPN)</td>
<td>1632</td>
</tr>
<tr>
<td>Jewish Studies</td>
<td>853</td>
</tr>
<tr>
<td>Jewish Studies (JS)</td>
<td>1634</td>
</tr>
<tr>
<td>Journalism</td>
<td>862</td>
</tr>
<tr>
<td>Journalism (JOUR)</td>
<td>1638</td>
</tr>
<tr>
<td>K</td>
<td></td>
</tr>
<tr>
<td>Kinesiology</td>
<td>525</td>
</tr>
<tr>
<td>Kinesiology (KIN)</td>
<td>1642</td>
</tr>
<tr>
<td>L</td>
<td></td>
</tr>
<tr>
<td>Labor and Employment Studies</td>
<td>267</td>
</tr>
<tr>
<td>Labor Studies (LABR)</td>
<td>1649</td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>874</td>
</tr>
<tr>
<td>Latin (LATN)</td>
<td>1651</td>
</tr>
<tr>
<td>Latina/Latino Studies</td>
<td>379</td>
</tr>
<tr>
<td>Latina/o Studies (LTNS)</td>
<td>1653</td>
</tr>
<tr>
<td>Liberal &amp; Creative Arts (LCA)</td>
<td>1658</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>876</td>
</tr>
<tr>
<td>Liberal Studies (LS)</td>
<td>1659</td>
</tr>
<tr>
<td>Literary, Performing, Visual, and Media Arts</td>
<td>184</td>
</tr>
<tr>
<td>Lower Division General Education</td>
<td>82</td>
</tr>
</tbody>
</table>

1807
<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>273</td>
</tr>
<tr>
<td>Management (MGMT)</td>
<td>1660</td>
</tr>
<tr>
<td>Marine Science</td>
<td>1218</td>
</tr>
<tr>
<td>Marine Science (MSCI)</td>
<td>1663</td>
</tr>
<tr>
<td>Marketing</td>
<td>279</td>
</tr>
<tr>
<td>Marketing (MKTG)</td>
<td>1666</td>
</tr>
<tr>
<td>Master of Arts in Anthropology</td>
<td>622</td>
</tr>
<tr>
<td>Master of Arts in Asian American Studies</td>
<td>374</td>
</tr>
<tr>
<td>Master of Arts in Broadcast and Electronic Communication Arts</td>
<td>672</td>
</tr>
<tr>
<td>Master of Arts in Chinese</td>
<td>908</td>
</tr>
<tr>
<td>Master of Arts in Cinema Studies</td>
<td>697</td>
</tr>
<tr>
<td>Master of Arts in Classics</td>
<td>706</td>
</tr>
<tr>
<td>Master of Arts in Communication Studies</td>
<td>717</td>
</tr>
<tr>
<td>Master of Arts in Comparative Literature</td>
<td>727</td>
</tr>
<tr>
<td>Master of Arts in Design</td>
<td>767</td>
</tr>
<tr>
<td>Master of Arts in Economics</td>
<td>235</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Adult Education</td>
<td>299</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Early Childhood Education</td>
<td>311</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Educational Administration</td>
<td>300</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Elementary Education</td>
<td>313</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Equity and Social Justice in Education</td>
<td>302</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Instructional Technologies</td>
<td>302</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Language and Literacy Education</td>
<td>313</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Mathematics Education</td>
<td>314</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Mathematics Education .</td>
<td>316</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Secondary Education</td>
<td>317</td>
</tr>
<tr>
<td>Master of Arts in Education: Concentration in Special Interest Area</td>
<td>304</td>
</tr>
<tr>
<td>Master of Arts in English: Concentration in Composition</td>
<td>807</td>
</tr>
<tr>
<td>Master of Arts in English: Concentration in Creative Writing</td>
<td>744</td>
</tr>
<tr>
<td>Master of Arts in English: Concentration in Linguistics</td>
<td>807</td>
</tr>
<tr>
<td>Master of Arts in English: Concentration in Literature</td>
<td>809</td>
</tr>
<tr>
<td>Master of Arts in English: Concentration in Teaching English to Speakers of Other Languages</td>
<td>810</td>
</tr>
<tr>
<td>Master of Arts in Ethnic Studies</td>
<td>377</td>
</tr>
<tr>
<td>Master of Arts in Family and Consumer Sciences</td>
<td>464</td>
</tr>
<tr>
<td>Master of Arts in French</td>
<td>915</td>
</tr>
<tr>
<td>Master of Arts in Geography</td>
<td>1214</td>
</tr>
<tr>
<td>Master of Arts in Geography: Concentration in Resource Management and Environmental Planning</td>
<td>1215</td>
</tr>
<tr>
<td>Master of Arts in German</td>
<td>922</td>
</tr>
<tr>
<td>Master of Arts in Gerontology</td>
<td>507</td>
</tr>
<tr>
<td>Master of Arts in History</td>
<td>832</td>
</tr>
<tr>
<td>Master of Arts in Human Sexuality Studies</td>
<td>578</td>
</tr>
<tr>
<td>Master of Arts in Humanities</td>
<td>843</td>
</tr>
<tr>
<td>Master of Arts in International Relations</td>
<td>852</td>
</tr>
<tr>
<td>Master of Arts in Italian</td>
<td>928</td>
</tr>
<tr>
<td>Master of Arts in Japanese</td>
<td>934</td>
</tr>
<tr>
<td>Master of Arts in Mathematics</td>
<td>1255</td>
</tr>
<tr>
<td>Master of Arts in Music</td>
<td>966</td>
</tr>
<tr>
<td>Master of Arts in Philosophy</td>
<td>999</td>
</tr>
<tr>
<td>Master of Arts in Political Science</td>
<td>1009</td>
</tr>
<tr>
<td>Master of Arts in Psychology: Concentration in Developmental Psychology</td>
<td>1306</td>
</tr>
<tr>
<td>Master of Arts in Psychology: Concentration in Mind, Brain &amp; Behavior</td>
<td>1306</td>
</tr>
<tr>
<td>Master of Arts in Psychology: Concentration in Social Psychology</td>
<td>1307</td>
</tr>
<tr>
<td>Master of Arts in Spanish</td>
<td>945</td>
</tr>
<tr>
<td>Master of Arts in Special Education</td>
<td>329</td>
</tr>
<tr>
<td>Master of Arts in Theatre Arts</td>
<td>1021</td>
</tr>
<tr>
<td>Master of Arts in Women and Gender Studies</td>
<td>1031</td>
</tr>
<tr>
<td>Master of Fine Arts in Art</td>
<td>660</td>
</tr>
<tr>
<td>Master of Fine Arts in Cinema</td>
<td>698</td>
</tr>
<tr>
<td>Master of Fine Arts in Creative Writing</td>
<td>744</td>
</tr>
<tr>
<td>Master of Fine Arts in Theatre Arts: Concentration in Design/Technical Production</td>
<td>1022</td>
</tr>
<tr>
<td>Master of Music</td>
<td>967</td>
</tr>
<tr>
<td>Master of Public Administration</td>
<td>563</td>
</tr>
<tr>
<td>Master of Public Health</td>
<td>523</td>
</tr>
<tr>
<td>Master of Science in Accountancy</td>
<td>206</td>
</tr>
<tr>
<td>Master of Science in Biology: Concentration in Cell and Molecular Biology</td>
<td>1100</td>
</tr>
<tr>
<td>Master of Science in Biology: Concentration in Ecology, Evolution and Conservation Biology (EECB)</td>
<td>1101</td>
</tr>
<tr>
<td>Master of Science in Biology: Concentration in Marine Biology</td>
<td>1102</td>
</tr>
<tr>
<td>Master of Science in Biology: Concentration in Microbiology</td>
<td>1102</td>
</tr>
<tr>
<td>Master of Science in Biology: Concentration in Physiology and Behavioral Biology</td>
<td>1103</td>
</tr>
<tr>
<td>Master of Science in Biomedical Science: Concentration in Biotechnology</td>
<td>1104</td>
</tr>
<tr>
<td>Master of Science in Biomedical Science: Concentration in Stem Cell Science</td>
<td>1104</td>
</tr>
<tr>
<td>Master of Science in Chemistry</td>
<td>1127</td>
</tr>
<tr>
<td>Master of Science in Chemistry: Concentration in Biochemistry</td>
<td>1127</td>
</tr>
<tr>
<td>Master of Science in Clinical Rehabilitation and Mental Health Counseling</td>
<td>468</td>
</tr>
</tbody>
</table>
Master of Science in Communicative Disorders ........................................ 330
Master of Science in Computer Science .................................................. 1138
Master of Science in Computer Science: Concentration in Computing and Business .......................................................... 1139
Master of Science in Computer Science: Concentration in Computing for Life Sciences ......................................................... 1139
Master of Science in Computer Science: Concentration in Software Engineering .............................................................. 1139
Master of Science in Counseling ............................................................. 469
Master of Science in Counseling: Concentration in Marriage, Family, and Child Counseling ...................................................... 471
Master of Science in Engineering: Concentration in Embedded Electrical and Computer Systems .......................................... 1194
Master of Science in Engineering: Concentration in Energy Systems ... 1195
Master of Science in Engineering: Concentration in Structural/Earthquakes .............................................................. 1196
Master of Science in Geographic Information Science ..................... 1216
Master of Science in Geosciences ......................................................... 1164
Master of Science in Kinesiology ............................................................ 542
Master of Science in Nursing ................................................................. 551
Master of Science in Nursing: Concentration in Family Nurse Practitioner ............................................................. 554
Master of Science in Physics ................................................................. 1292
Master of Science in Physics: Concentration in Astronomy ................. 1293
Master of Science in Psychology: Concentration in Clinical Psychology .................................................................................. 1307
Master of Science in Psychology: Concentration in Industrial/Organizational Psychology .................................................... 1308
Master of Science in Psychology: Concentration in School Psychology .................................................................................. 1309
Master of Science in Recreation, Parks, and Tourism ...................... 574
Master of Social Work ........................................................................... 587
Mathematics ......................................................................................... 1219
Mathematics (MATH) ........................................................................... 1669
Mesa Engineering Program (MEP) .......................................................... 177
Metro College Success Program ............................................................... 177
Middle East & Islamic Studies (MEIS) .................................................... 1676
Middle East and Islamic Studies .............................................................. 887
Military Studies ....................................................................................... 182
Minor in Accounting ............................................................................ 206
Minor in African Studies ....................................................................... 605
Minor in American Indian Studies .......................................................... 363
Minor in American Studies ................................................................... 613
Minor in Animation ................................................................................. 697
Minor in Anthropology .......................................................................... 622
Minor in Arab and Muslim Ethnicities and Diasporas Studies ........... 364
Minor in Art ......................................................................................... 660
Minor in Asian American Studies .......................................................... 374
Minor in Astronomy ............................................................................... 1292
Minor in Business Administration ......................................................... 221
Minor in Chinese Language .................................................................... 908
Minor in Chinese Literature and Linguistics ......................................... 908
Minor in Cinema ..................................................................................... 697
Minor in Civil Engineering .................................................................... 1193
Minor in Classics ................................................................................... 706
Minor in Communication Studies .......................................................... 717
Minor in Comparative Literature ........................................................... 727
Minor in Computer Engineering ............................................................ 1193
Minor in Computer Science .................................................................. 1138
Minor in Counseling ............................................................................. 468
Minor in Criminal Justice Studies .......................................................... 491
Minor in Critical Social Thought ........................................................... 748
Minor in Dance ...................................................................................... 756
Minor in Decision Sciences .................................................................... 227
Minor in Drama ..................................................................................... 1020
Minor in Earth Sciences ....................................................................... 1164
Minor in Economics ............................................................................... 235
Minor in Electrical Engineering ............................................................ 1193
Minor in English and American Literature .......................................... 806
Minor in Finance ................................................................................... 247
Minor in French .................................................................................... 915
Minor in General Biology ..................................................................... 1099
Minor in Geography ............................................................................. 1214
Minor in German .................................................................................. 922
Minor in Health Education .................................................................... 521
Minor in History ................................................................................... 832
Minor in Holistic Health Studies .............................................................. 522
Minor in Hospitality and Tourism Management .................................... 253
Minor in Human Sexuality Studies .......................................................... 576
Minor in Humanities ............................................................................. 843
Minor in Industrial Arts .......................................................................... 767
Minor in Information Systems ............................................................... 259
Minor in International Business ............................................................. 266
Minor in International Relations ............................................................. 852
Minor in Italian ..................................................................................... 928
Minor in Japanese .................................................................................. 934
Minor in Jewish Studies ......................................................................... 861
Minor in Journalism ............................................................................... 873
| Minor in Labor and Employment Studies | 272 |
| Minor in Latina/Latino Studies | 391 |
| Minor in Lesbian, Gay, Bisexual, and Transgender Studies | 577 |
| Minor in Linguistics | 806 |
| Minor in Management | 278 |
| Minor in Marketing | 284 |
| Minor in Mathematics | 1255 |
| Minor in Mechanical Engineering | 1194 |
| Minor in Music | 966 |
| Minor in Persian Studies | 936 |
| Minor in Philosophy | 999 |
| Minor in Philosophy and Religion | 999 |
| Minor in Physics | 1292 |
| Minor in Political Science | 1009 |
| Minor in Race and Resistance Studies | 393 |
| Minor in Recreation | 573 |
| Minor in Russian | 937 |
| Minor in Spanish | 945 |
| Minor in Special Education | 331 |
| Minor in Technical and Professional Writing | 806 |
| Minor in Urban Studies and Planning | 604 |
| Minor in Women and Gender Studies | 1031 |
| Minor in Women's Health Issues | 522 |
| Minor Program in Africana Studies | 354 |
| Minor Program in Chemistry | 1127 |
| Minor Programs | 23 |
| Minor/Certificate in Athletic Coaching | 542 |
| Modern Greek Studies | 889 |
| Modern Greek Studies (MGS) | 1677 |
| Modern Languages and Literatures | 890 |
| Modern Languages and Literatures (MLL) | 1679 |
| Modern Languages and Literatures-Chinese | 892 |
| Modern Languages and Literatures-French | 910 |
| Modern Languages and Literatures-German | 917 |
| Modern Languages and Literatures-Italian | 923 |
| Modern Languages and Literatures-Japanese | 929 |
| Modern Languages and Literatures-Persian | 936 |
| Modern Languages and Literatures-Russian | 937 |
| Modern Languages and Literatures-Spanish | 938 |
| Moss Landing Marine Laboratories | 187 |
| Multiple Subject Credential Programs | 334 |
| Museum Studies | 946 |

<p>| Museum Studies (M S) | 1681 |
| Music | 949 |
| Music (MUS) | 1684 |
| Music/Recording Industry | 397 |
| N | 163 |
| Nondiscrimination Policy | 163 |
| Nursing | 544 |
| Nursing (NURS) | 1693 |
| O | 183 |
| Office of International Programs | 183 |
| Office of the Chancellor | 30 |
| Opportunities for Athletes | 160 |
| Opportunities for Prospective Teachers | 160 |
| Other Services Credential Programs | 343 |
| P | 969 |
| Pacific Asian Studies | 969 |
| Paralegal Studies | 398 |
| Persian (PRSN) | 1697 |
| Philosophy | 971 |
| Philosophy (PHIL) | 1699 |
| Physical Therapy and Clinical Laboratory Science | 558 |
| Physical Therapy (PT) | 1707 |
| Physics and Astronomy | 1256 |
| Physics (PHYS) | 1709 |
| Planning Your Studies at SF State | 111 |
| Policies and Procedures | 142 |
| Political Science | 1001 |
| Political Science (PLSI) | 1713 |
| Post-Baccalaureate Degrees | 21 |
| Pre-Health Professions | 400 |
| Pre-Nursing | 402 |
| Privacy Rights of Students in Education Records | 161 |
| Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees | 162 |
| Psychology | 1295 |
| Psychology (PSY) | 1725 |
| Public Administration | 563 |
| Public Administration (P A) | 1733 |
| Pupil Personnel Services Credential: School Counseling Designation Â- Post-MasterÂ-Â Level | 472 |
| Pupil Personnel Services Credential: School Psychology Designation | 1310 |
| R | 392 |
| Race and Resistance Studies | 392 |
| Race And Resistance Studies (RRS) | 1736 |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>World Development Studies</td>
<td>285</td>
</tr>
<tr>
<td>World Music and Dance</td>
<td>1032</td>
</tr>
</tbody>
</table>